

ISSN 0003-2689

Analytical Abstracts

Index to Volume 46
1984

ROYAL SOCIETY OF CHEMISTRY

Publications and Information Board

Chairman: C. W. Rees

K. W. Bagnall
H. J. Cluley
K. G. Cooper
E. A. V. Ebsworth
R. D. Guthrie
A. R. Haygarth Jackson
R. Howe

G. W. Kirby
J. H. Knox
P. M. Maitlis
F. S. Stone
K. W. Sykes
R. D. Welham
P. A. H. Wyatt

Analytical Abstracts Editorial Committee

Chairman: H. I. Shalgosky

H. J. Cluley
G. J. Dickes
I. D. Fleming
J. H. Hunt
P. A. Jackson

S. J. Lyle
J. E. Page
D. I. Rees
J. F. Stevens
J. S. Wragg

Editor, Analytical Abstracts: R. L. Jordan

Analytical Abstracts (ISSN 0003-2689) is published monthly, consisting of one volume per year, by The Royal Society of Chemistry, Burlington House, London W1V 0BN, England. All orders accompanied with payment should be sent directly to The Royal Society of Chemistry, The Distribution Centre, Blackhorse Road, Letchworth, Herts. SG6 1HN, England. 1985 Annual Subscription rate if purchased on its own: U.K. £199.50, Rest of World \$209.50, U.S.A. \$385.00. One-sided edition of this journal: U.K. £217.50, Rest of World £228.00, U.S.A. \$420.00.

Air freight and mailing in the U.S.A. by Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11033. U.S. Postmaster: Send address changes to *Analytical Abstracts*, Publications Expediting Inc., 200 Meacham Avenue, Elmont, NY 11003. Second class postage paid at Jamaica, NY 11431. All other despatches outside the U.K. by bulk airmail within Europe, and accelerated surface post outside Europe. PRINTED IN THE U.K.

© The Royal Society of Chemistry, 1985. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photographic, recording or otherwise, without the prior permission of the publishers.

AABSAR 46 S1-S181 A1-A68 (1984)
ISSN 0003-2689

Analytical Abstracts

**Published by
The Royal Society of Chemistry**

Volume 46 1984

© The Royal Society of Chemistry, 1985
Printed by Heffers Printers Ltd Cambridge England

Introduction to the Index

Subject Index

The alphabetically ordered subject index contains entries based on the most important subjects mentioned in the title and abstract. Letter-by-letter alphabetization is used for the bold subject headings, hyphenated words being treated as single entries. Repetition of words or phrases that occur in preceding entries is avoided by the use of indentation.

E.g., **Waste water**, analysis of, by g.c., 6H63
detmn. of cadmium in, by a.a.s., 2H61
by anodic-stripping voltammetry, 10H65

The letter B following an abstract number indicates that the item refers to a book.

Subject Index Guide

Abstracts are indexed under the most specific heading that can be assigned on the basis of the title and abstract text. Some headings have "see also" references to direct the user to more specific or closely related headings. "See" references indicate that the subject is indexed under another heading.

A

A.a.s., see Spectrophotometry, atomic-absorption
Acetaminophen, see Paracetamol
Acetic acid, dipropyl-, see Valproic acid
—, ethylenediaminetetra-, see EDTA
Acetone, succinyl-, see Heptanoic acid, 4,6-dioxo-
Acetylene derivatives, see Alkynes
Acids, see also Amino-acids; Carboxylic acids; Sulphonic acids
Aclacinomycin A, see Aclarubicin
Aclarubicin A, see Aclarubicin
Acrolein, see Acrylaldehyde
Activation analysis, see Radioactivation analysis
ADP, see Adenosine 5'-pyrophosphate
Adrenocorticotrophic hormone, see Corticotrophin
Adriamycin, see Doxorubicin
Aerosols, see also Welding fumes
A.e.s., see Spectrometry, atomic-emission
A.f.s., see Spectrometry, atomic-fluorescence
Air, see also Air-borne particulates; Breath; Dust, atmospheric
 α -Alanine, α -aspartylphenyl-, methyl ester hydrochloride, see Aspartame
Alcohols, see also Diols
—, aliphatic, see also Alkanols
Alfalfa, see Lucerne
Alkaloids, see also Glycoalkaloids; Pyrrolizidine alkaloids
Alkanes, see also Cycloalkanes
Alloys, see also headings such as Iron alloys
Allylamine, 3-(4-bromophenyl)-*N,N*-dimethyl-3-(3-pyridyl)-, see Zimelidine
Alprostadil, see Prostaglandin E₁
Aluminium oxide, see also Corundum
Aluminium yttrium oxide, see Garnet, aluminium yttrium
Amidazofen, see Amidopyrine
Aminazine, see Chlorpromazine
Amines, see also Diamines; Polyamines
Aminophenazone, see Amidopyrine
Ammonium compounds, quaternary, [(1-ethoxycarbonyl)pentadecyl]-trimethyl-, bromide, see Septonex
AMP, see Adenosine 5'-monophosphate
Anapriline, see Propranolol
Androsta-1,4-dien-3-one, 4-chloro-17 β -hydroxy-17 α -methyl-, see Turinabol
Anisole, butylated hydroxy-, see Phenol, t-butyl-4-methoxy-
Anthracene-9,10-dione, 1,4-dihydroxy-5,8-bis-[2-(2-hydroxyethyl)amino-ethylamino]-, see Mitoxantrone
Anthraquinone, 1,3,8-trihydroxy-6-methyl-, see Emodin
Antipyrine, see Phenazone
Apresoline, see Hydralazine
Arachis oil, see Peanut oil
Argipressin, see Vasopressin, arginine-
Aroclors, see Biphenyl derivatives, chloro-
Aromatic compounds, see also Hydrocarbons, aromatic
Arsinic acid, dimethyl-, see Arsine, hydroxydimethyl-, oxide
Artemisinin, *O*-methylidihydro-, see Artemether

Organic compounds are indexed under the parent compounds. Esters and salts of organic acids are indexed under the names of their acid constituents.

Author Index

The names of all authors are listed alphabetically, and prefixes are treated as part of the surname. Where two or more authors have the same surname and initials, no attempt at resolution has been made. For example, George Brown and Gillian Brown will both be included under the single entry "Brown, G."

The German ä, ö and ü and the Danish or Norwegian ø have been rendered as ae, oe, ue and oe, respectively. The suffix B to an abstract number indicates that the item refers to a book.

B

Bacteria, see Micro-organisms
Bakery products, see also Biscuits; Bread
Balances, see Weighing
Baytex, see Fenthion
Benzamide, *N*-(2-piperidinylmethyl)-2,5-bis-(2,2,2-trifluoroethoxy)-, see Flecainide
Benzene-1,3-diamine, see *m*-Phenylenediamine
Benzo-1,2,4-thiadiazine, 6-chloro-3,4-dihydro-3-(α -methylbenzyl)-7-sulphamoyl-2*H*-, 1,1-dioxide, see Bemetizide
Beverages, alcoholic, see also Beer; Brandy; Whisky; Wine
—, non-alcoholic, see also Fruit juices
1,4-Benzodiazepin-2-one, 7-chloro-5-(2-fluorophenyl)-1,3-dihydro-3-hydroxy-1-(2-hydroxyethyl)-2*H*-, see SAS 643
BHA, see Phenol, t-butyl-4-methoxy-
BHC, see HCH
BHT, see *p*-Cresol, 2,6-di-*t*-butyl-
Bicarbonate, see Hydrogen carbonate ion
Biochemical analysis, see also Clinical analysis
Biological tissues, see also Plants, and names of specific organs and tissues
BOD, see Biochemical oxygen demand
Bufotenine, see Tryptamine, 5-hydroxy-*NN*-dimethyl-
Butabarbital sodium, see Secbutobarbitone sodium
Butadiene, see Phenylbutazone
Butan-2-one, see Ketone, ethyl methyl
Butylated hydroxyanisole, see Phenol, t-butyl-4-methoxy-
Butylated hydroxytoluene, see *p*-Cresol, 2,6-di-*t*-butyl-
Butyramide, 4-[(4-chlorophenyl)(5-fluoro-2-hydroxyphenyl)methylen-amino]-, see Progabide
Butyric acid, γ -vinyl- γ -amino-, see Hex-5-enoic acid, 4-amino-

C

Cacodylic acid, see Arsine, hydroxydimethyl-, oxide
Calcifediol, see Cholecalciferol, 25-hydroxy-
Calciferol, see Ergocalciferol
Calcitriol, see Cholecalciferol, 1,25-dihydroxy-
cAMP, see Adenosine cyclic 3',5'-phosphate
Carbamazepine, 10,11-dihydro-10-oxo-, see Oxcarbazepine
Carbazic acid, 2-[(4-ethyl-(2-hydroxypropyl)amino)pyridazin-3-yl]-, ethyl ester, see Cadralazine
Carbendazim, see Carbendazim
Carbohydrates, see also Aldoses; Amino-sugars; Ketoses; Monosaccharides (and similar headings)
Carbon, see also Carbonate-carbon; Diamond; Graphite
Carbonyl chloride, see Phosgene
Carbonyl compounds, see also Aldehydes; Ketones
Carboxylic acids, see also Fatty acids
Cardboard, see Paperboard
Cereal products, see also Bakery products; Breakfast cereals; Flour
Cereals, see also Barley; Maize; Rice; Rye; Sorghum; Wheat
Cetylpyridinium bromide, see Pyridinium bromide, hexadecyl-

Chinoform, *see* Clioquinol
 Chloroform, methyl-, *see* Ethane, 1,1,1-trichloro-
 Chromatography, ion-exchange, stationary phases for, *see* Ion exchange, materials for
 Chick-pea, *see* Cicer arietinum
 Cigarette smoke, *see* Tobacco smoke
 Citrus fruit, *see also* Grapefruit; Lemons; Oranges
 Citrus-fruit juices, *see* Grapefruit juice; Lemon juice; Orange juice
 Citrus-fruit oils, *see also* Lemon oil
 Coal, *see also* Lignite
 Coal ash, *see also* Fly ash
 Coatings, *see also* Paints
 COD, *see* Chemical oxygen demand
 Colza oil, *see* Rapeseed oil
 Confectionery, *see also* Chewing-gum; Chocolate
 Copper alloys, *see also* Brass; Bronze
 Cordamine, *see* Nikethamide
 Corn oil, *see* Maize oil
 Corn syrup, *see* Maize syrup
 Cortisol, *see* Pregnen-4-ene-3,20-dione, 17,21-dihydroxy-
 —, 11-deoxy-, *see* Pregnen-4-ene-3,20-dione, 17,21-dihydroxy-
 —, 6 β -hydroxy-, *see* Pregnen-4-ene-3,20-dione, 6 β ,11,17,21-tetrahydroxy-
 Co-Trimoxazole, *see* Sulphamethoxazole
 Coumarin, 6,7-dihydroxy-, *see* Esculetin
 —, 3-[1-(4-nitrophenyl)ethyl-2-propionyl]-4-hydroxy-, *see* Nitrofarin
 Crops, *see also* Plants
 CS, *see* Malononitrile, 2-chlorobenzylidene-
 Cyclophosphane, *see* Cyclophosphamide
 p-Cymen-2-ol, *see* Carvacrol
 p-Cymen-3-ol, *see* Thymol
 Cysteine, N-acetyl-, *see* Acetylcysteine
 Cytosine, 1- β -D-arabinofuranosyl-, *see* Cytarabine
 Cytosine arabinoside, *see* Cytarabine
 Cytosine, 5-fluoro-, *see* Flucytosine

D

Dairy products, *see also* Butter; Cheese; Cream; Ghee; Ice-cream; Whey; Yogurt
 Damlén, *see* Amitriptyline
 Daunomycin, *see* Daunorubicin
 Decamethrin, *see* Deltamethrin
 Dehydroepiandrosterone, *see* Androst-5-en-17-one, 3 β -hydroxy-
 Detergents, *see* Surfactants
 Dextrose, *see* Glucose
 Dibenz[b,f]azepine-5-carboxamide, 10,11-dihydro-10-oxo-5H-, *see* Oxcarbazepine
 Dibucaine, *see* Cinchocaine
 Diethanolamine, *see* Ethanol, 2,2'-iminodi-
 DIHQ, *see* Di-iodohydroxyquinoline
 Dimedrol, *see* Diphenhydramine hydrochloride
 1,3-Dioxolo[4,5-g]quinoxaline-7-carboxylic acid, 5-ethyl-5,8-dihydro-8-oxo-, *see* Oxolinic acid
 Diprazinum, *see* Promethazine hydrochloride
 Dipterex, *see* Trichlorphon
 Disyston, *see* Disulfoton
 Dithane Z-78, *see* Zincb
 1,2-Dithiole-3-thione, 5-(4-methoxyphenyl)-, *see* Anethol trithione
 —, 4-methyl-5-(2-pyrazinyl)-, *see* Oltipraz
 DNA, *see* Nucleic acids, deoxyribo-
 cis-Docos-13-enoic acid, *see* Erucic acid
 Dopacetic acid, *see* Acetic acid, 3,4-dihydroxyphenyl-
 Dramamine, *see* Dimenhydrinate
 Drugs, *see also* Pharmaceutical analysis; Pharmaceutical preparations
 D.t.a., *see* Thermal analysis, differential
 Dust, atmospheric, *see also* Aerosols; Air-borne particulates; Smoke
 Dyes, *see also* specific commercial or Colour Index names

E

Effluents, *see* Waste water
 Eicosa-5,8,11,14-tetraenoic acid, *see* Arachidonic acid
 Electron micro-probe analysis, *see* Electron spectroscopy, micro-probe analysis
 Electrophoresis, *see also* Immunoelectrophoresis; Isoelectric focusing; Isotachopheresis
 Environmental materials, *see also* Air; Environmental analysis; Soil; Waters, natural
 Enzymes, *see also* specific enzyme names
 Epiandrosterone, dehydro-, *see* Androst-5-en-17-one, 3 β -hydroxy-
 Epinephrine, *see* Adrenaline
 Ercalcidol, *see* Ergocalciferol, 25-hydroxy-
 Ergoline, 8-[methylthio]-6-propyl-, *see* Pergolide

Ergonovine, *see* Ergometrine
 Ergotoxin, dihydro-, *see* Co-dergocrine
 Erythorbic acid, *see* Isoascorbic acid
 ESCA, *see* Electron spectroscopy, photo-, X-ray
 Esculin, *see* Esculoid
 E.s.r., *see* Electron spin resonance
 Ethane, epoxy-, *see* Oxiran
 Ethanolamine, *see* Ethanol, 2-amino-
 Ethers, *see also* Crown ethers
 —, thio-, *see* Sulphides, organic
 Ethinyloestradiol, *see* Oestradiol, ethynyl-
 Ethylene, 1,1-dichloro-2,2-bis-(4-chlorophenyl)-, *see* DDE
 Ethylene glycol, *see* Ethanediol
 Ethylene oxide, *see* Oxiran
 Evolved-gas analysis, *see* Thermal analysis, evolved-gas

F

Fats and fatty oils, *see also* Lipids; Vegetable oils
 Fatty acids, *see also* Carboxylic acids
 Feeding-stuffs, *see also* Silage
 Fenflumizole, *see* Imidazole, 2-(2,4-difluorophenyl)-4,5-bis-(4-methoxyphenyl)-
 Ferrous alloys, *see* Iron alloys
 Fibres, *see also* Dietary fibre
 Fish, *see also* Salmon; Trout; Tuna
 Flue gases, *see* Waste gases
 Fly ash, *see also* Coal ash
 Folitropin, *see* Follicle-stimulating hormone
 Foods, *see also* Dyes, for foods; Flavour compounds; Flavourings
 Forage, *see* Feeding-stuffs
 Forensic analysis, *see also* Arson analysis
 Fruit juices, *see also* Apple juice; Citrus-fruit juices; Grape juice
 Fruit, *see also* Apples; Citrus fruit
 Furan, *see* Carbofuran
 Furfuraldehyde, *see* 2-Furaldehyde

G

Gamma-BHC, *see* Gamma-HCH
 Gases, *see also* Waste gases
 G.c., *see* Chromatography, gas
 Globulins, *see also* Immunoglobulins
 Glucose, 2-deoxy-, *see* Glucitol, 2,5-anhydro-
 Glycine, mercaptopropionyl-, *see* Tiopronin
 Glycolic acid, thio-, *see* Acetic acid, mercapto-
 Glycols, *see* Diols
 Glycosaminoglycans, *see* Mucopolysaccharides
 Glycosides, *see also* Cardiac glycosides; Flavonoid glycosides
 Grape must, *see* Musts
 Ground-nut oil, *see* Peanut oil
 Ground-nuts, *see* Peanuts
 Guaiacol glyceryl ether, *see* Guaiphenesin

H

Halcion, *see* Triazolam
 Haloforms, *see* Methane derivatives
 HCH, *see also* Alpha-HCH; Beta-HCH; Gamma-HCH
 Heroin, *see* Diamorphine
 Hexamethylenetetramine, *see* Hexamine
 H.p.l.c., *see* Chromatography, liquid, high-performance
 Hydrazinecarboxylic acid, 2-[6-ethyl-(2-hydroxypropyl)amino]pyridazin-3-yl-, ethyl ester, *see* Cadralazine
 Hydrocarbons, *see also* Alkanes; Alkenes; Alkynes; Petroleum
 Hydrocortisone, 11-deoxy-, *see* Pregnen-4-ene-3,20-dione, 17 α ,21-dihydroxy-

I

Imidazole, 2-mercapto-1-methyl-, *see* Methimazole
 —, 1-(2-naphthoylethylmethyl)-, *see* Nafimidone
 Imidazo[2,1-b]quinazolin-2(3H)-one, D-(-)-6-chloro-1,5-dihydro-3-methyl-, *see* Ro 13-6438
 Immunoassay, *see also* Enzyme immunoassay; Fluoro-immunoassay; Radio-immunoassay
 Imperatorin, *see* Pentosalen
 Indicators, *see also* specific compounds
 Indolizine, 3-[4-(3-dibutylaminopropoxy)benzoyl]-2-ethyl-, *see* Butopropazine
 Insecticides, *see* Pesticides
 Iodochlorohydroxyquin, *see* Clioquinol

Ionol, see *p*-Cresol, 2,6-di-*t*-butyl-
 Irganox 1010, see Pentaerythritol tetra-(3,5-di-*t*-butyl-4-hydroxyhydrocinnamate)
 Iron alloys, see also Magnetic materials; Steel
 Isadrine, see Isoprenaline
 Isopropylantipyrene, see Propylphenazone
 Isoproterenol, see Isoprenaline
 Isovaleric acid, see Butyric acid, 3-methyl-

K

Kanamycin B, see Bekanamycin
 Kepone, see Chlordane
 Ketone, 3-(dibutylaminopropoxy)phenyl 2-ethylindolizin-3-yl, see Butoprozone
 Kinins, see also Cytokinins

L

Lamps, see Light sources
 Lanthanoids, see Rare-earth metals
 Lead alloys, see also Solders
 Lecithins, see Phosphatidylcholines
 Levodopa, see *L*-Dopa
 Lidocaine, see Lignocaine
 Light sources, see also Lasers
 Lindane, see Gamma-HCH
 Lipids, see also Glycolipids; Phospholipids
 LSD, see Lysergide
 Luminescence analysis, see also Bioluminescence analysis; Chemiluminescence analysis
 Luteinizing-hormone-releasing hormone, see Gonadorelin
 Lutropin, see Luteinizing hormone
 Lysergic acid diethylamide, see Lysergide

M

Mandelonitrile β -D-gentiobioside, see Amygdalin
 Marijuana, see Cannabis
 Matacil, see Aminocarb
 MBC, see Carbendazim
 MCPP, see Mecoprop
 MDL 19,205, see 2*H*-Imidazol-2-one, 4-ethyl-1,3-dihydro-5-isonicotinoyl-
 Meat, see also Bacon; Beef; Ham; Pork; Venison
 Melatonin, see Tryptamine, *N*-acetyl-5-methoxy-
 Melipramine, see Imipramine
 Menadione, see Menaphthone
 Meperidine, see Pethidine
 Mephentoin, see Methoin
 Mephobarbital, see Methylphenobarbitone
 Mercaptans, see Thiols
 Metadrenaline, see Adrenaline, 3-*O*-methyl-
 Metals, see also Alloys; Cations
 Metamizole, see Dipyrone
 Metanephine, see Adrenaline, 3-*O*-methyl-
 Methane, bis-(4-isocyanatophenyl)-, see Benzene, 1,1'-methylenebis-(4-isocyanato-
 Methenamine, see Hexamine
 Methylergonovine, see Methylergometrine
 Methyl mercaptan, see Methanethiol
 Micro-organisms, see also Phytoplankton; Plankton
 Microscopy, see also Electron microscopy
 Milk products, see Dairy products
 Minerals, ores and rocks, see also Geochemical analysis; Geological materials; Lunar materials; Meteorites; Sediments
 Mossbauer spectrometry, see Spectrofluorimetry, gamma-ray nuclear resonance
 Muramidase, see Lysozyme

N

NADH, see Nicotinamide-adenine dinucleotide, reduced
 2*H*-Naphthaceno[1,2-*b*]oxocin-9,16-dione, 4-dimethylamino-2,6-epoxy-3,4,5,6,11,12,13,14-octahydro-3,5,8,10,13-pentahydroxy-11-methoxy-6,13-dimethyl-, see Nogarol, 7-*R*-*O*-methyl-
 Naphthalene-2,7-disulphonic acid, 4,5-dihydroxy-, see Chromotropic acid
 Naphthalene-3,6-disulphonic acid, 1,8-dihydroxy-, see Chromotropic acid
 Napotol, see Chlordiazepoxide
 Narcotine, see Noscapine
 Natural gas, see Fuel gases
 Neopynamine, see Tetramethrin
 Nervous tissue, see also Brain
 Neutron-activation analysis, see Radioactivation analysis, by neutrons
 Neutrophils, see Leucocytes
 Nicotinamide, see Nicotinamide
 Nitrogen, see also Amino-nitrogen; Ammonia-nitrogen; Urea-nitrogen
 Nitroglycerin, see Glyceryl trinitrate
 N.m.r., see Nuclear magnetic resonance

Noodles, see Alimentary pastes
 Noramidopyrine methanesulphonate sodium, see Dipyrone
 Norepinephrine, see Noradrenaline
 Norethindrone, see Norethisterone
 Normetadrenaline, see Noradrenaline, 3-*O*-methyl-
 Normetanephine, see Noradrenaline, 3-*O*-methyl-
 19-Nortestosterone, see Nandrolone
 Novocainamide, see Procainamide
 Novocaine, see Procaine
 Nozepam, see Oxazepam
 NTA, see Acetic acid, nitrilotri-
 Nuts, see also Almonds; Hazel-nuts; Peanuts

O

Octadeca-9,12-dienoic acid, see Linoleic acid
 Octadeca-9,12,15-trienoic acid, see α -Linolenic acid
 Octoestrol, see Benzoestrol
 Olefins, see Alkenes
 Ores, see Minerals, ores and rocks, and ores of specific elements
 Oxine, see Quinolin-8-ol
 Oxygen, see also Ozone

P

PAH, see Hydrocarbons, polycyclic aromatic
 Paints, see also Lacquers; Pigments
 PAM-2-Cl, see Pralidoxime chloride
 Panax ginseng, see Ginseng
 Pantothenol, see Dexpanthenol
 Parabens, see Benzoic acid, 4-hydroxy-, esters
 Paraffins, see Alkanes
 Parathyrin, see Parathyroid hormone
 Pasta, see Alimentary pastes
 PCB, see Biphenyl derivatives, chloro-
 Penicillin V, see Penicillin, phenoxymethyl-
 Peancap-M, see Parathion-methyl
 Peptides, see also Glycopeptides; Neuropeptides; Polypeptides
 Peptidaminobenzophenone, see Glycinamide, *N*-[4-chloro-2-(2-chlorobenzoyl)phenyl]-*N*-methylglycyl-
 Pesticides, see also Herbicides
 Petrol, see Gasoline
 Petroleum products, see also Bitumen; Diesel fuel; Fuel oils; Gasoline; Insulating oils; Kerosine; Lubricating oils; Transformer oils
 Pharmaceutical analysis, see also Drugs
 Pharmaceutical preparations, see also Ointments
 Phenol, 4-methylamino-, see Metol
 Phenol, 2-phenyl-, see Biphenyl-2-ol
 Phenols, see also Polyphenols
 Phenytol, hydroxy-, see Hydanthoin, 5-(4-hydroxyphenyl)-5-phenyl-
 Phosphates, see also Minerals, ores and rocks, phosphate
 —, condensed, see Polyphosphates
 Phosphorites, see Minerals, ores and rocks, phosphate
 Photoelectron spectroscopy, see Electron spectroscopy, photo-
 Phytonadione, see Phytomenadione
 Pimentoes, see Peppers
 PIXE, see Spectrometry, emission, X-ray, proton-induced
 Placental lactogen, see Prolactin
 Placidyl, see Ethchlorvynol
 Plants, see also Algae; Cereals; Grasses; Herbs; Vegetables
 Plictran, see Cyhexatin
 Polymers, see also Copolymers; Plastics; Resins
 Polysaccharides, see also Lipopolysaccharides
 Potable spirits, see also Brandy; Rum; Whisky
 Pottery, see Ceramics
 Precious metals, see Noble metals
 Promedolol, see Trimeperidine
 Propane, epoxy-, see Oxiran, methyl-
 —, 2-(methylpropargylamino)-1-phenyl-, see Selegiline
 —, 1,1,1-tris(hydroxymethyl)-, see Propane-1,3-diol, 2-ethyl-2-(hydroxymethyl)-
 Propanide, see Propanil
 Propan-1-ol, 2-methyl-, see Isobutyl alcohol
 Propionic acid, 2-(3,4-dihydroxycinnamoyl)-3-(3,4-dihydroxyphenyl)-, see Rosmarinic acid
 α -Propoxyphenyl, see Dextropropoxyphene
 Propylene oxide, see Oxiran, methyl-
 Proserinum, see Neostigmine methylsulphate
 Proteins, see also Glycoproteins; Lipoproteins
 Pteric acid, 4-deoxy-4-amino- N^{10} -methyl-, see Benzoic acid, 4-[[{(2,4-diaminopteridin-6-yl)methyl]methylamino)-
 Purine, 6-mercapto-, see Mercaptopurine
 Pydrin, see Fenvalerate
 Pyrazon, see Chloridazon
 Pyridinium chloride, 1-[2-(3-pentyloxyphenylcarbamoyloxy)cyclohexyl]-, see Pentacaine
 Pyrillamine, see Mepyramine
 1*H*,4*H*-Pyrimidin-4-one, 2-[2-(5-dimethylaminomethylfurfurylthio)ethylamino]-5-(6-methyl-3-pyridylmethyl)-, see SK&F 93479
 Pyrroloquinoline quinone, see 1*H*-Pyrrolo[2,3-*f*]quinoline-2,7,9-tricarboxylic acid, 4,5-dioxo-

Q

Quinoline, di-iodohydroxy-, *see* Di-iodohydroxyquinoline
Quinolizium, 3-[di-(2-thienyl)methylene]octahydro-5-methyl-, *see* Tiquizium bromide

R

Radiations, *see also* X-rays; Neutrons
—, detection of, *see also* Scintillation counting
RDX, *see* 1,3,5-Triazine, hexahydro-1,3,5-trinitro-
Reagents, *see also specific reagent names*
Reducing sugars, *see* Carbohydrates
Renal Stones, *see* Urinary calculi
RNA, *see* Nucleic acids, ribo-
Rocks, *see* Minerals, ores and rocks
Rubomycin, *see* Daunorubicin

S

Salad dressing, *see also* Mayonnaise
Salazosulphapyridine, *see* Sulphasalazine
Salicylazosulphapyridine, *see* Sulphasalazine
Salicylic acid, *see* Hippuric acid, o-hydroxy-
Sauces, *see also* Mayonnaise; Soy sauce
Sausages, *see* Meat products, sausages
Scopolamine, *see* Hyoscine
Seafood, *see* Fish; Shellfish
Sea-water, *see* Waters, natural, sea-
Seaweed, *see* Algae
Secobarbital, *see* Quinalbarbitone
Sensors, *see also* Electrodes
Serotonin, *see* Tryptamine, 5-hydroxy-
Sewage, *see* Waste Water
Sewage sludge, *see* Waste solids, sewage sludge
Shellfish, *see also* Mussels; Oysters; Shrimp
Shoyu, *see* Soy sauce
Sialic acid, *see* Neuraminic acid, N-acetyl-
Silica, *see also* Quartz; Sand
Silicates, *see also* Aluminosilicates; Minerals, ores and rocks, silicate
Smoke, *see also* Tobacco smoke
Sodium chloride, *see also* Brine
Sorbide nitrate, *see* Isosorbide dinitrate
Spectroelectrochemistry, *see* Electrochemical analysis, spectro-
Spectrometry, mass, *see* Mass spectrometry
Spectroscopy, electron, *see* Electron spectroscopy
Sphingolipids, *see* Glycosphingolipids
Spiro(androsta-1,4-diene-17,2'-tetrahydrofuran)-3,5'-dione, 6,7:15,16-dimethylene-, *see* Spirorenone
Stack gases, *see* Waste gases
Steroids, adrenal, *see* Corticosteroids
Styrene oxide, *see* Oxiran, phenyl-
Succinylacetone, *see* Heptanoic acid, 4,6-dioxo-
Succinylcholine, *see* Suxamethonium
Sugars, *see* Carbohydrates
Sulfamethazine, *see* Sulphadimidine
Sulfisoxazole, *see* Sulphafurazole
Sulphacyl sodium, *see* Sulphacetamide sodium
Sulphamethazine, *see* Sulphadimidine
Sulphides, *see also* Disulphides; Minerals, ores and rocks, sulphide
—, organic, *see also* Polysulphides
Sulphydryl groups, *see* Mercapto-groups
Syrups, *see also* Maize syrup; Maple syrup

T

T₃, *see* Thyronine, tri-iodo-
TATB, *see* Benzene-1,3,5-triamine, 2,4,6-trinitro-
TBQH, *see* Quinol, t-butyl-
TBZ, *see* Thiabendazole
TCDD, *see* Dibenzo-p-dioxin, 2,3,7,8-tetrachloro-
Tetracaine, *see* Amethocaine
Tetraphene, *see* Benz[a]anthracene
Thiazole-4-carboxamide, 2β-D-ribofuranosyl-, *see* Tiazofurin
Thienol[2,3-e][1,4]diazepin-2-one, 5-(2-chlorophenyl)-1,3-dihydro-1-methyl-, *see* Clotiazepam
Thiodan, *see* Endosulfan
Thiodiglycolic acid, *see* Acetic acid, 2,2'-thiodi-
Thiopental, *see* Thiopentone
Thoron, *see* Radon-220
Thyreoidan, *see* Thyroid
Thyroid-stimulating hormone, *see* Thyrotrophin
Thyrotrophin-releasing hormone, *see* Protirelin

Tin alloys, *see also* Solders
TNT, *see* Toluene, 2,4,6-trinitro-
o-Toluidine, 3,5-dinitro-, *see* Dinitolmide
Toluene, butylated hydroxy-, *see* p-Cresol, 2,6-di-t-butyl-
—, 5-chloroamino-, *see* o-Toluidine, 4-chloro-
Tordon, *see* Picloram
Toxaphene, *see* Camphchlor
Toxogonin, *see* Obidoxime chloride
Transthyretin, *see* Prealbumins
Treflan, *see* Trifluralin
Triethanolamine, *see* Ethanol, 2,2', 2"-nitrilotris-
Tweens, *see* Polysorbates

U

Uracil, 5-fluoro-, *see* Fluorouracil
Urea, ethylenethio-, *see* Imidazolidine-2-thione
—, propylenethio-, *see* Imidazolidine-2-thione, 4-methyl-

V

Valeric acid, *see* Pentanoic acid
Vanillylmandelic acid, *see* Mandelic acid, 4-hydroxy-3-methoxy-
Vegetable oils, *see also* Linseed oil; Olive oil; Rapeseed oil; Safflower-seed oil; Sunflower-seed oil
Vegetables, *see also* Cabbage; Carrots; Cucumbers; Legumes; Lettuce; Mushrooms; Potatoes; Spinach; Tomatoes
Vitamin A, *see* Retinol
Vitamin B₁, *see* Thiamine
Vitamin B₂, *see* Riboflavin
Vitamin B₆, *see* Pyridoxine
Vitamin B₁₂, *see* Cobalamin, cyano-
Vitamin C, *see* Ascorbic acid
Vitamin D₃, *see* Ergocalciferol
Vitamin D₃, *see* Cholecalciferol
Vitamin E, *see* α-Tocopherol
Vitamin K₁, *see* Phylloquinone
Vitamin K₃, *see* Menaphthone
Volumetric analysis, *see* Titrimetry
Vomitoxin, *see* Nivalenol, deoxy-
VP 16-213, *see* Etoposide

W

Waste gases, *see also* Exhaust gases
Waste solids, *see also* Fly ash; Slag
Waters, natural, *see also* Ice; Rain; Snow; Waste water
Waxes, *see also* Beeswax; Paraffin wax
Wheat flour, *see* Flour
Wine, *see also* Sake
Wood pulp, *see* Paper pulp
Wort, *see* Malt wort

X

Xanthine, 3,7-dimethyl-1-(5-oxohexyl)-, *see* Oxpentifylline
XPS, *see* Electron spectroscopy, photo-, X-ray
X-ray photoelectron spectroscopy, *see* Electron spectroscopy, photo-, X-ray
XRF, *see* Spectrometry, X-ray fluorescence

Y

YM-09538, *see* Benzenesulphonamide, 5-(1-hydroxy-2-[2-(2-methoxyphenoxy)ethylamino]ethyl)-2-methyl-, hydrochloride

Z

Zoalene, *see* Dinitolmide

Errata

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 38, 1980

Abstract

No.	Line	
5B41	1	for (4-Acetylphenyl) read (4-Acetoxyphenyl)

VOL. 39, 1980

Abstract

No.	Line	
4B155	3	for (2-acetylphenyl) read (2-acetoxyphenyl)

VOL. 44, 1983, Author Index

Page

A8	insert	Felt, V., 6D181
A12	under	Hockeborn, M. add 6D255
A12	insert	Husek, P., 6D181
A19	insert	Matucha, M., 6D181
A24	under	Rick, W. add 6D255

VOL. 45, 1983

Abstract

No.	Line	
1D73	2	after benzoyl) insert phenyl

VOL. 46, 1984

Abstract

No.	Line	
1A10	9	for Chesber read Chesler
1B5	6	for N read Ne
1D58	6	for 43 read 42
1D90	16	for mannuronolactone read mannuronolactone
1D95	11	for Na ₂ SO ₄ read Na ₂ S ₂ O ₄
1D224	7	for 2-Furanacryl read 3-(2-Furyl)acryl
1D224	10	for furanacryl read 3-furylacryl
1F20	12	for phosphate read phthalate
2C38	3	for Jasmin read Jasim
2D48	3	for Coggin read Goggin
2H51	3	before method insert photometric
2H52	2	for Sporstol read Sporstoel
2H52	2	for Gjoes read Gjoes

Issue 2 p. 140

Replace last seven lines of column one by

2H56. Formaldehyde, methanol and related compounds in raw, waste and potable waters, 1982. Tentative methods. Department of the Environment & National Water Council [UK]. *Methods Exam. Waters Assoc. Mater.*, 1983. Pp.

48.—Methods are described for determining: (i) up to 2 ppm of free formaldehyde (I) by spectrophotometry with acetylacetone (II); (ii) up to 10 ppm of total I [*i.e.*, I combined as, *e.g.*, poly(oxymethylene) or hexamine]

Abstract

No.	Line	
2J46	5	for 124-133 read 124-135
3A8	4	for Jeyarat read Jeyaraj
3D55	5	for chlordiazepam read chlordiazepoxide
3D57	1	for Cardonnier read Cordonnier
3D80	2	for Giovannetto read Giovanetto
3D88	2	for Chang read Chan
3D158	7	for Lambron read Lambrou
3D186	2	for Salkanen read Jalkanen
3D238	3	for Taber read Traber
3D247	3	for Vauk read Vacik
3D276	2	after exchangers. insert Hostomska, Z;
3E6	4	for Tira read Jira
3H40	3	for Arrai read Arai
3H78	3	for Ratchick read Ratchik
4F10	6 and 7	should read The flavour enhancer, in the presence of L-phenylalanine added as internal standard, was hydrolysed
5B187	8	for 140 mm ² read 1.4 mm ²
5D34	12 and 14	after 5-nitro insert benzo
5G38	10	for OY 17 read OV-17
5H2	6	insert g to read Kernforschungszent.
6B138	2	for Kapuskas read Kapsukas
6D8		amend title to read Critical study of macro solid phases for use in immunoassay systems. I. Immobilization of . . .
6F76	17	delete ethanol
7J38	5	insert (I) after paracetamol

Issue 9, p. 900

Bottom four lines of each column missing: replacement page issued

9B55	10	after eluent. insert Detection is by conductivity with measurement of peak height.
------	----	--

Abstract

No.	Line	
10B53		Abstractor for EN read G.A.B.
10B66	10 and 11	for or 15 to 20 µm read or 20 to 25 µm
10H63	9	after injected insert; detection was at 440 nm
11B68	3	hyrazone read hydrazone

A

- Abietic acid, dehydro-**, detmn. of, in effluent from paper industry, by h.p.l.c., 4H84
- Abscissic acid**, detmn. of, in chestnuts, by h.p.l.c., 11G23
- in plants, by h.p.l.c., 3G15
- by r.i.a., 10D130
- in wheat leaves, by h.p.l.c. or r.i.a., 9G14
- sepn. of, from other cytokinins, by h.p.l.c., 5G28
- in plants, by counter-current chromatography, 9G15
- Acetabulol**, detmn. of, by potentiometry, electrode for, 9J138
- Acceptorone**, anodic voltammetry of, at rotating platinum or gold electrodes, 8E60
- Acetate**, detmn. of, in fruits, by g.l.c., 2F33
- in nectar, by g.l.c., 7D107
- Acetophenone-1,3-dione, 2,2'-dichloro-**, detmn. of, by t.l.c. - u.v. absorption, 10C71
- Acetaldehyde**, detmn. of, in air, by g.c. or h.p.l.c. after trapping as hydrazone, 11H23
- by g.l.c., collection method for, 3H22
- in blood, by g.c., sample preparation for, 7D116
- inhibition of ethanol interference in, 7D117
- in blood and tissues, by h.p.l.c., 1D94
- in *Streptococcus lactis* cultures by h.p.l.c. of its 2,4-dinitrophenylhydrazone, 4D153
- in methyloxiran polyethers, by g.l.c., 2C70
- in periodate-oxidized glycol systems, by spectrophotometry, 6D153
- in plasma, by h.p.l.c., 10D114
- in poly(ethylene terephthalate) bottles, by head-space g.c., 5F12
- in products of 3-picoline synthesis, volumetric and polarographic, 5C22
- in tobacco smoke, by hydrazone derivatization - h.p.l.c., 8D112
- in water, by g.c. as cyanohydrins, 10H77
- in yogurt and wine, by h.p.l.c., derivatization and extraction for, 4F48
- Acetals**, detmn. of, acetone produced during hydrolysis of polymeric, by m.s., 1C34
- identn. of, cyclic, in polyhydric compounds or emulsifiers, by m.s., 2C11
- Acetamide, 2-amino-N-(1,1-dimethylhexyl)-**, detmn. of, in plasma, by g.l.c., 2D84
- , **indol-3-yl-**, identn. of, in uraemic serum, by h.p.l.c., 1D122
- , **N-methyl-N-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
- , **thio-**, detmn. of, potassium chlorate in titrimetric, 10C29
- Acetanilide**, detmn. of, in phenacetin, by differential scanning calorimetry, 11J22
- , **4'-chloro-**, t.l.c. of, structure in relation to, 2E26
- Acetanilide derivatives**, sepn. of, by h.p.l.c., correlation of basicity constants with, 3C34
- Acetate**, detmn. of, chemisorbed on Fischer - Tropch catalysts, 6B180
- in dialysis or infusion soln., by h.p.l.c., 8E91
- in lake sediment, by h.p.l.c. and g.l.c., 9H72
- in precipitation water, by ion chromatography, 12H42
- , **trifluoro-**, detmn. of, in plasma and urine, by h.p.l.c., 8D61
- Acetic acid**, detmn. of, as phenacyl ester, by h.p.l.c., 9C17
- by g.c., 3C14
- by g.c. and h.p.l.c., 4F16
- by h.p.l.c., electrokinetic detector for, 4C18
- by h.p.l.c. with electrokinetic detection, 4C19
- in air, by g.l.c., stationary phases for, 8H23
- in brown sugar, by g.c., 11F12
- in cephaetril injections, by ion chromatography, 6E27
- in presence of other acids, by g.l.c., 8D115
- in sorbic acid, by g.l.c., 4C20
- in waste water, by g.l.c., 3H77
- microbial sensors in, review, 5D4
- detmn. of, gossypol complex with, by h.p.l.c., 10E16
- detmn. of, low-boiling impurities in, by head-space g.c., 8C17
- detmn. of, trace elements in, by spark-source m.s. and a.e.s., 4A6
- detmn. of, water in, by g.l.c., 5C27
- , **2-alkyl-2-cyano-2-phenyl-, methyl ester**, sepn. of, racemates of, by liquid chromatography, 11E22
- , **N-(4-aminophenyl)aminophenyliminodi-**, detmn. of, in serum, by r.i.a., 1D71
- , **1,2-bis-(2-aminoethoxy)ethane-NN'N'-tetra-**, detmn. of, catalytic-kinetic spectrophotometric, 12C22
- , **2,2-bis-(4-chlorophenyl)-**, detmn. of, in urine, by colorimetry, 9D106
- , **bromo-, alkyl esters**, sepn. of, by g.c., 12C19
- , **2-carbamoylphenoxy-**, detmn. of, in serum, by h.p.l.c., 3D34
- , **chloro-**, detmn. of, by isotachopheresis, 11C10
- Acetic acid, chloro-**,—continued
- , —, **alkyl esters**, sepn. of, by g.c., 12C19
- sepn. of, C₈ to C₁₈ alkanol-derived, by g.l.c., 10C12
- , **4-chloroindol-3-yl-**, detection of, in plants, by h.p.l.c., 3G13
- , **dehydro-**, detmn. of, in squash (vegetable) and wine, by g.l.c., 2F36
- , **6,7-dichloro-2-(4-fluorophenyl)-2-methyl-1-oxindan-5-yloxy-**, detmn. of, in plasma and urine, by methylation - g.l.c., 9D100
- , **2,4-dichlorophenoxy-**, detmn. of, in vegetables, by ion chromatography, 6F65
- , **dihydroxyphenyl-**, detmn. of, in plasma, radio-enzymic, 9D158
- in rat brain, by h.p.l.c., 8D146
- , **3,4-dihydroxyphenyl-**, detmn. of, in plasma, by h.p.l.c., 12D154
- in urine, by g.l.c., 6D204
- , **diphenyl-**, detmn. of, in vegetables, by ion chromatography, 6F65
- , **fluoro-**, detmn. of, in plants, by g.l.c. - m.s., 9D123
- , —, **sodium salt**, detmn. of, in meat baits and formulations, by ion-selective electrode, 10G28
- , **5-hydroxyindol-3-yl-**, detection of, in biological fluids, by h.p.l.c., 1D135
- in plants, by h.p.l.c., 3G13
- detmn. of, by reaction with 1-nitroso-2-naphthol, 6D19
- in brain, by h.p.l.c., 2D168
- in cerebrospinal fluid, by h.p.l.c., 2D135
- g.c. - m.s. and fluorimetry, 6D163
- in plasma, by h.p.l.c., 1D132
- in rat brain, by h.p.l.c., 7D160, 8D146
- in urine, by g.l.c., 6D204
- by h.p.l.c., 1C3, 11D128
- identn. of, in uraemic serum, by h.p.l.c., 1D122
- , **4-hydroxy-3-methoxyphenyl-**, detmn. of, by reaction with 1-nitroso-2-naphthol, 6D19
- in cerebrospinal fluid, by h.p.l.c., 2D135
- g.c. - m.s. and fluorimetry, 6D163
- in plasma, by g.c. - m.s., 7D159
- by h.p.l.c. with electrochemical detection, 8D148
- in rat brain, by h.p.l.c., 8D146
- in urine, by g.l.c., 3D106, 6D204
- by h.p.l.c., 11D128
- by reversed-phase h.p.l.c. with electrochemical detection, 12D153
- , **4-hydroxyphenoxy-**, detmn. of, in fermentation broths, by h.p.l.c., 3E16
- , **4-hydroxyphenyl-**, detmn. of, in urine, by g.l.c., 6D160, 6D204
- , **indolyl-**, identn. of, in plant extracts, by g.l.c. - m.s., 4G27
- , **indol-3-yl-**, detection of, in plants, by h.p.l.c., 3G13
- detmn. of, by h.p.l.c., 10G16
- by t.l.c., 3G14
- in brain, by h.p.l.c. and g.c. - m.s., 11D156
- in chestnuts, by h.p.l.c., 11G23
- in plasma, by h.p.l.c., 1D132
- in *Pinus echinata* seedlings, by ion-pair h.p.l.c., 9G13
- in soil, by h.p.l.c., 7G24
- phthalaldehyde in fluorimetric, 10G15
- identn. of, in uraemic serum, by h.p.l.c., 1D122
- sepn. of, from other cytokinins, by h.p.l.c., 5G28
- in plants, by counter-current chromatography, 9G15
- , **mercapto-**, detmn. of, by titrimetry, amplification reactions in, 2C38
- , **1-methylimidazol-4-yl-**, detmn. of, in human cerebrospinal fluid, by g.c. - m.s., 10D160
- , **nitritoltri-**, detmn. of, by anodic-stripping voltammetry, 5C33
- by ion-pair h.p.l.c. of iron^{III} complex, 6C13
- in natural water, by anodic-stripping voltammetry, 12H88
- , **N-methylimidazol-4-yl-**, detmn. of, in urine, by g.l.c., 11D163
- , **phenoxy-**, detmn. of, in fermentation broths, by h.p.l.c., 3E16
- , **phenyl-**, detmn. of, in honey, by extraction - g.l.c., 12F13
- in plasma and cerebrospinal fluid, by g.c. - m.s., 6D156
- in urine, by g.l.c., 9D114
- , —, **alkyl esters**, g.l.c. of, 6C25
- , **thio-**, detmn. of, 2,2-diphenyl-1-picrylhydrazyl in spectrophotometric, 3C3
- , **2,2'-thiodi-**, detmn. of, in urine, by g.l.c., as indicator of exposure to vinyl chloride, 4D140
- , **trichloro-**, detmn. of, in plasma, by decarboxylation - g.c., 11D110
- , **trifluoro-**, detmn. of, in urine, by isotachopheresis, computerized optimization of, 9D73
- Acetic acid alkyl esters**, sepn. of, by g.c., 12C19
- sepn. of, aliphatic C₁ to C₁₂ alcohols from, by g.c., 12C10
- sepn. of, C₈ to C₁₈ alkanol-derived, by g.l.c., 10C12
- Acetic acid chloroalkyl esters**, sepn. of, by g.l.c., 3C17

- Acetic acid derivatives, aliphatic**, structure elucidation of long-chain, by g.c., 8C10
- Acetic acid ester**, detmn. of, by g.c. with direct aq. injection, 10C2
h.p.l.c. of, capacity factors of polyethylene stationary phase in, 10J26
—, **nitrilotri-**, detmn. of, as iron^{III} complex, by ion-exchange chromatography, 5C34
- Acetic acid ethyl ester**, detmn. of, in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- Acetic acid sodium salt**, detmn. of, by t.l.c., 9B16
1,4-diamino-2,3-dihydroanthraquinone as indicator in titrimetric, 3A6
i.r. spectrum of deuterium in deuterated analogue of, spectral-subtraction technique for, 8C18
- Acetic acid vinyl ester**, detmn. of, in aq. emulsions, by g.l.c., 5C110
in copolymers, by i.r. spectrophotometry, n.m.r. or pyrolysis, 7C94
in ethylene - vinyl copolymer, by i.r. spectrophotometry, 3C66
- Acetoacetate**, detmn. of, in serum, by spectrophotometry, 6D165
- Acetoacetic acid**, detmn. of, in urine, by g.l.c., 5D122
- Acetohydrazide, N'-(4-methylthiazol-2-yl)-**, as reagent for sulphide, 5A10, 5B189
- Acetone**, detection of, in air at hazardous-waste sites, sampler for, 5H6
detmn. of, in air, by colorimetry and g.c., 8H27
by g.l.c., 3H17
in breath, sampling device for, 8D94
in gasoline, by h.p.l.c., 9C51
in (hydroxyethyl)starches, by g.l.c., 5E57
in methoxylated polyethers, by g.l.c., 2C70
in presence of polymers, by m.s., 1C34
in propylene carbonate and propylene oxide, polarographic, 9C38
in tissues, by purge-and-trap g.l.c., 9D111
in tobacco smoke, by hydrazone derivatization - h.p.l.c., 8D112
in urine, by g.l.c., 5D122
detmn. of water in, by enthalpimetry, 7C16
—, **dihydroxy-**, detmn. of, in cosmetic emulsions, by g.c. and h.p.l.c., 5C90
—, **hexachloro-**, detmn. of, in air, by g.c., 3H20
- Acetonitrile**, detmn. of acrylonitrile in, by h.p.l.c., 3H61
—, (3,4-dichloroanilino)phenyl-, detmn. of, by spectrophotometry, 1E39
- Acetophenazine**, detmn. of, ferricyanide in titrimetric, 11E26
- Acetophenone**, detmn. of, by g.c., after sorption on Tenax, effect of ozone on, 6H29
by supercritical-fluid chromatography with FT i.r. detection, 5J28
in presence of phenols, by liquid chromatography, 5D121
—, **chloro-**, identn. of, in forensic samples, by g.c. - m.s., 3C65
- Acetophenone derivatives**, sepn. of, by liquid chromatography, 6D154
- Acetophenone oxime**, detmn. of, by potentiometric titration, 10C35
- Acetylcholinesterase**, assay of, by spectrophotometry, 1D217
in amniotic fluid, 1D223
by centrifugal analyser, 4D323
by immunoassay, 1D222
assay of membrane-bound, by electrometry, 4D317
detection of, by polyacrylamide gel electrophoresis, activity stain for, 5D247
- Acetylcodeine**, detmn. of, by h.p.l.c., 2E5
- Acetylcysteine**, detection of, in blood and plasma, by derivatization - h.p.l.c., 7D176
- N-Acetylglucosamine-6-sulphate sulphatase**, assay of, in leucocytes, skin and urine, by electrophoresis, 11D257
- β-N-Acetyl-D-glucosaminidase**, assay of, in biological tissues and fluids, centrifugal analyser in, 4D325
in rat urine, pre-treatment for, 6D303
in saliva and urine, indirect spectrophotometric, 7D257
in urine, by spectrophotometry, substrate for, 4D324
spectrophotometric, 12D232
stability-indicating, 3D246
- N-Acetyl-D-glucosaminyltransferases**, assay of, by h.p.l.c. sepn. of substrates and products, 5D240
- N-Acetylheparosan deacetylase**, assay of, substrate for, 7D256
- β-N-Acetylhexosaminidase**, assay of, in serum, by spectrophotometry, chromogenic substrate for, 5D249
- N-Acetyltransferase**, assay of, substrate for colorimetric, 11D242
- Acid chlorides**, detmn. of, by h.p.l.c. of 4-chloroaniline derivatives, 3C16
- Acidity**, measurement of, of industrial water, 9H36
measurement of free, in soln. of hydrolysable metal ions, by standard addition method, 12B28
of uranyl soln., by pH measurement in presence of ammonium sulphate, 10B75
measurement of total, in wine, by thermometric titration, 9F49
- Acidobacterium aerogenes**, detmn. of histidine metabolites in culture medium of, by electrophoresis and chromatofocusing, 9D166
- Acids**, detection of, in air at hazardous-waste sites, sampler for, 5H6
detmn. of, from rate of reaction with powdered metals, 7B3
in milk-protein concentrates, reproducibility of, 5F30
in presence of metal ions, by complexometry, 7B4
in serum and urine, review, 7D122
detmn. of inorganic, in air, sampler for, 11H13
detmn. of total, in oleoresins and conifer resin, 11D114
detmn. of weak, by potentiometric titration in toluene - methanol, 6A7
detmn. of weak and strong, by h.f. titration, 5A21
- Acifluorfen-sodium**, detmn. of, in feeds, by ion-pair reversed-phase h.p.l.c., 7G27
- Aclarubicin**, detmn. of, electrochemical, 7E13
in plasma, by h.p.l.c., 6D68
- Aconite**, detmn. of alkaloids of, by h.p.l.c., 11E9
- Aconitine**, detmn. of, by indirect polarography, 2E6
in *Aconitum kusnezoffii* and *A. carnichaeli*, by h.p.l.c., 11E9
- Acorns**, detmn. of fibre components in, 4F50
- Acoustic microscopy**, principles of, review, 11J71
- Acridine**, sepn. of, by h.p.l.c., 5C1
—, **9-(4-methylanilino)-**, detmn. of, in tablets, by fluorimetry, 9E53
- Acrylaldehyde**, detmn. of, by g.c., calibration system for, 6J64
in tobacco smoke, by hydrazone derivatization - h.p.l.c., 8D112
- Acrylamide**, detmn. of, in acrylamide - (methacryloyloxyethyl)trimethylammonium methyl sulphate copolymers, by i.r. spectrometry, 1C38
- Acrylic acid, trans-3-[6-(methylthio)-4-oxo-4H-quinazolin-3-yl]-**, detmn. of, in blood plasma, by h.p.l.c., 4D123
- Acrylic acid alkyl esters**, sepn. of, by normal and reversed-phase t.l.c., 12C71
- Acrylic acid butyl ester**, detmn. of, in aq. emulsions, by g.l.c., 5C110
- Acrylic acid ethyl ester**, detmn. of, by spectrophotometry, 7C25
- Acrylic acid 2-ethylhexyl ester**, detmn. of, in aq. emulsions, by g.l.c., 5C110
- Acrylic acid methyl ester**, sepn. of chloro-derivatives of, by g.l.c., 4C24
- Acrylic fibres**, detmn. of, in blends, by hot extraction, 10C76
- Acrylonitrile**, detmn. of, in dairy products and peanut butter, by g.l.c., 4F37
in feedstock for production of synthetic rubber, by g.l.c., 8C95
in water and acetonitrile, by h.p.l.c., 3H61
- Actin**, detmn. of, by r.i.a. with iodinated imidoester, 1D4
- α-Actinin**, detmn. of, by r.i.a. with iodinated imidoester, 1D4
- Actinoids**, detmn. of, after electro-deposition, 8B57
by pulsed optoacoustic spectrometry, oxidation-state-specific, 10B69
in minerals, ores and rocks, by n.a.a., 4B194
in nuclear-reactor fuel, by m.s., 4B94
detmn. of palladium isotopes in irradiated, by m.s., 5B105
detmn. of trace, in biological samples, computerized surface-barrier detector for, 11D19
extraction of, dibutyl (diethylcarbamoylmethyl)phosphonate in, 11B52
extraction of tervalent, synergism in, review, 1B56
- Acylphosphatase**, assay of carbamoyl phosphate, by monitoring release of inorganic phosphate, 7D250
- Adamantane**, h.p.l.c. of halo-derivatives of, 5C61
- Adenine**, detmn. of, by fluorimetry, prepn. of chloroacetaldehyde reagent for, 1D192
by h.p.l.c. of chloroacetaldehyde derivatives, 2D218
in biological fluids, by cathodic-stripping voltammetry, 9D236
in sea-water, by h.p.l.c., review, 2H54
in seaweed, by ion-exchange chromatography, 6D277
identn. of, by derivative u.v. spectrophotometry, 6D282
sepn. of, in liver, heart and brain, by h.p.l.c., 2D223
—, **2,8-dihydroxy-**, detmn. of, in urine, by h.p.l.c., 6D280
- Adenine nucleosides**, sepn. of, by h.p.l.c., 5D221
- Adenine nucleotides**, sepn. of, by h.p.l.c., 5D221
- Adenine phosphoribosyltransferase**, assay of, in cell lysates and intact cells, by h.p.l.c., 4D296
- Adenosine**, detmn. of, by h.p.l.c. of chloroacetaldehyde derivatives, 2D218
in blood and tissues, by r.i.a., 7D221
in seaweed, by ion-exchange chromatography, 6D277
in vas deferens, by h.p.l.c., 11D219
—, **adenosine 5'-P₁-tetraphospho-P₄-5''**, detmn. of, in *Physarum polycephalum*, 7D219
—, **deoxy-**, sepn. of, by h.p.l.c., 2D221
—, **2-deoxy-**, detmn. of, by spectrophotometry, diphenylamine in, 5D217
—, **deoxy-, 5'-monophosphate**, sepn. of, by h.p.l.c., 2D221
—, **5'-deoxy-5'-methylthio-**, sepn. of, in liver, heart and brain, by h.p.l.c., 2D223
—, **5'-methylthio-**, detmn. of, in tissues, by h.p.l.c., 5D224
- Adenosine cyclic deoxy monophosphate**, detmn. of, by r.i.a., 4D283
- Adenosine cyclic 3',5'-phosphate**, detmn. of, by immunoassay, 4D285
by r.i.a., 3D229
in serum, by chemiluminescent energy-transfer immunoassay, 4D6
sepn. of derivatives of, by h.p.l.c., 6D273
- Adenosine deaminase**, assay of, formycin A as substrate in fluorimetric, 3D263
in blood, by agarose gel thin-layer electrophoresis, 8D228
in cell lysates and intact cells, by h.p.l.c., 4D296
- Adenosine diphosphoribose**, detmn. of, in biological fluids, by cathodic-stripping voltammetry, 9D236
- Adenosine kinase**, assay of, in biological tissues, 2D230
- Adenosine 5'-monophosphate**, detmn. of, in biological fluids, by cathodic-stripping voltammetry, 9D236
in vas deferens, by h.p.l.c., 11D219
sepn. of, and its derivatives, by h.p.l.c., 3D227
- Adenosine phosphates**, detmn. of, in heart, by h.p.l.c., 2D217
in preparations from brewer's yeast, 2E16
- Adenosine 5'-pyrophosphate**, detmn. of, in biological fluids, by cathodic-stripping voltammetry, 9D236
in vas deferens, by h.p.l.c., 11D219
- Adenosine triphosphatase**, assay of, by electrophoresis, 3D279
- Adenosine 5'-triphosphate**, concentration of, by co-pptn. with calcium fluoride, 3D230

Adenosine 5'-triphosphate—continued

- detmn. of, in biological fluids, by cathodic-stripping voltammetry, 9D236
- in biological materials, by h.p.l.c., 10D237
- in erythrocytes, centrifugal analyser in, 4D20
- in nerve tissue, enzymic - bioluminescence method for, 6D219
- in vas deferens, by h.p.l.c., 11D219
- on immobilized bioluminescent enzymes, by photographic detection of light emission, 9D12
- S-Adenosylmethionine:calmodulin(lysine) N-methyltransferase**, assay of, in tissue extracts, by radiometry, calcium-dependent hydrophobic interactions in, 4D308
- Adenylate kinase**, assay of, in blood, by agarose gel thin-layer electrophoresis, 8D228
- in cerebrospinal fluid, spectrophotometric, 9D253
- Adenylates, 2',5'-oligo-**, detmn. of, in mixtures, review, 9D234
- Adhesives**, analysis of silicone, by gel-permeation chromatography, 3C54
- analysis of volatile compounds released from, trapping adsorbents for g.c. - m.s., 4C93
- analysis of water-based, by FT i.r. a.t.r. spectrometry, 8C65
- detmn. of, in wood products, 11C63
- Adicillin**, detmn. of, in fermentation broths, by h.p.l.c., 7E11
- Adiphenine**, sepn. of, by ion-pair h.p.l.c., 12E37
- Adiphenine hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- Adipic acid**, detection of, in polyesters, by g.c., 12C70
- , 2-oxo-, detmn. of, in plasma and urine, 4D162
- Adipic acid ester**, sepn. of, in plasticizers, by h.p.l.c. and t.l.c., 11C67
- Adipocere**, identn. of 10-hydroxyoctadec-12-enoic acid in, 7D121
- Adipohydrazide**, detmn. of, spectrophotometric, 3C20
- Adipose tissue**, detmn. of 3,3',4,4'-tetrachlorodiphenyl in rat, by g.l.c., 5D109
- detmn. of tocopherol in, by h.p.l.c., 3D238
- sepn. of steroids from, by h.p.l.c. with column-switching, 7F40
- ADP reductase**, assay of, by chromatography on polyethylenimine-cellulose, 8D231
- Adrenal cortex**, detmn. of α -tocopherol in rat, by g.c. - m.s., 10D244
- Adrenal gland**, detmn. of corticosteroids in, by h.p.l.c., 3D120
- Adrenaline**, detection of, by h.p.l.c., electrochemical detector for, 10J40
- detmn. of, by anodic voltammetry, 12E45
- by flow-injection analysis or h.p.l.c., electrochemical detector for, 12J40
- by h.p.l.c. of dansyl derivatives, 2D7
- by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
- in biological materials, by h.p.l.c. as dansyl derivatives, 4D208
- in blood plasma and urine, by g.c. - m.s., 4D207
- in human urine, by h.p.l.c. with post-column derivatization, 12D152
- in injection soln., by polarography with germanium^{IV}, 2E32
- in plasma, by h.p.l.c., 2D166, 12D154
- deconjugation for, 10D155
- radio-enzymic, 2D165, 12D151
- in rat brain, by h.p.l.c., 7D160
- with electrochemical detection, 10D158
- in serum, by h.p.l.c. with dual electrochemical detection, 2D163
- in urine, by h.p.l.c., 2D164
- fluorimetric, 8D151
- detmn. of glucuronide and sulphate conjugates of, in plasma, radio-enzymic, 12D155
- extraction of, from urine, by adsorption on alumina, 5D168
- , **3-O-methyl-**, detmn. of, by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
- by reaction with 1-nitroso-2-naphthol, 6D19
- in urine, by h.p.l.c., 5D74, 7D158
- by spectrophotometry, interference by drugs in, 5D76
- Adrenaline hydrogen tartrate**, detmn. of, by cerimetry, 4E3
- Adrenal tissue**, assay of tyrosine hydroxylase in, by sandwich enzyme immunoassay, 11D237
- Adrenergic blocking agents**, detmn. of, in biological fluids, 9D81
- by h.p.l.c., review, 5D77
- in biological materials, chromatographic, review, 11D89
- sepn. of enantiomers of, by h.p.l.c., 5E41
- Aerosols**, analysis of, 10A3B, 10H43
- by laser micro-probe m.s., 5J135
- by XRF, 11A6B
- analysis of sub-micron, in-line diluter for, 1J4
- analysis of urban, by XRF, 6H17
- characterization of, Particle Measuring Systems active-scattering-aerosol spectrometer probe in, 11J49
- detection of sodium chloride and sodium sulphate in, 6H17
- detmn. of, in air, piezoelectric instrument for, 2H7
- detmn. of carbon in, by photoacoustic and reflectance photometry, 5H18
- detmn. of organic compounds in, volatilization artefact in cascade impactor sampling in, 11H20
- detmn. of PAH in, by g.l.c., 3H26
- device for continuous preparation of standard, 5J15
- generation of methylene blue and fluorescein sodium, of known particle number concn., 10J7
- generation of sodium chloride, 10J6
- measurement of particle size distributions of, by electrostatic classifier, 10J151

Aerosols—continued

- monitoring of, in breathing zone, 1H6
- particle size analysis of, electrical mobility spectrometer for, 10J152
- particle size distribution of, linear inversion method in calculation of, from measurements with differential mobility analyser, 11A31
- samplers for, 4H11
- sampling of, calibration of small cyclones for, 10H7
- cascade impactor for, 2H6
- chamber for instrument evaluation and calibration in, 1J5
- comparison of inlets for, 1H3
- device for, 11J5
- from flue gases, cascade impactor for, 8J1
- high-vol. dichotomous virtual impactor for, 11J2
- in breathing zone, 10H8
- portable sampler for, 1H4
- spinning-duct centrifuge for, 1J123
- sampling of carbon-fibre, inlet for, 11J3
- Aflatoxinol**, detmn. of, in eggs, 12F19
- Aflatoxin B₁**, detection of, by t.l.c., dil. hydrochloric acid as developing solvent for, 8G1
- in peanuts, by g.c. - m.s., 11G5
- detmn. of, in animal feeds, by t.l.c. - h.p.l.c., 7G21
- in cereals, by t.l.c. and spectrophotometry, 2G5
- in eggs, 12F19
- in maize, by h.p.l.c., 7G8
- in urine, by r.i.a., 3D83
- Aflatoxin B₂**, detection of, in peanuts, by g.c. - m.s., 11G5
- Aflatoxin M₁**, detection of, in milk, milk powder or cheese, by t.l.c., 5F29
- detmn. of, in dairy products, by t.l.c., 9F29
- in eggs, 12F19
- in milk, by h.p.l.c., 12F20
- by h.p.l.c. with fluorescence detection, 10F38
- by t.l.c. after clean-up by gel permeation, 5F28
- in milk and milk powder, by t.l.c., 4F38
- in milk and milk products, by h.p.l.c., 2F23
- in milk powder, by t.l.c., 6F52
- Aflatoxins**, detection of, in urine, by h.p.l.c., 2D122
- detmn. of, in air-borne dust, by AOAC method, 12H40
- in apples and pears and their juices and jams, by t.l.c., 8F44
- in fat and oil, by t.l.c., 4F76
- in feeding-stuffs and milk, 2G13
- in flour and feed, by t.l.c., 3G11
- in foods, by h.p.l.c., review, 10F12
- in maize, by h.p.l.c., 7G2
- test programme for, 4G7
- in maize and peanut oil, by column chromatography - t.l.c., 2G2
- in mouldy food, by t.l.c., 5F6
- in peanut butter, by h.p.l.c., 12F24
- in peanut products, by h.p.l.c. and high-performance t.l.c., 12F25
- in peanuts, by t.l.c., dilution errors in, 4G8
- statistical evaluation of standard methods for, 10F7
- extraction of, from peanuts, optimization of, 10F8
- fluorescence of, effects of solvent composition on, 12F7
- sepn. of, in milk, by high-performance t.l.c., 9J50
- Agar**, detection of anionic residues in electrophoretic, by colloid titration, 10J54
- detmn. of 3,6-anhydrogalactose in, spectrophotometric, 3D96
- Aglycones**, sepn. of flavonoid, by rotation locular counter-current chromatography, 9J10
- by t.l.c., 9D222
- Agricultural materials**, detmn. of selenium in, by fluorimetry, 2D42
- Air**, adsorption of organic compounds from, on Tenax, effect of ozone on, 6H29
- adsorption of organic compounds in, competition in, 10H32
- adsorption of sulphur dioxide from, sampling tubes in, 12H25
- analysis of, effect of alkalinity of filters on, 11J8
- for assessment of exposure to pollution, review, 9H2
- model for pollution sources from results of, review, 12H9
- sampler for, 1J7
- analysis of fibrous dusts in, by transmission electron microscopy, 11H8
- analysis of metal dusts, fumes and vapours in work-place, by automated ICP a.e.s., review, 9H12
- analysis of respirable dust in, micro-probe, 10A4B
- analysis of work-place, by XRF, review, 9H11
- characterization of polycyclic aromatic ketones in, by h.p.l.c. and g.c. - m.s., 5H33
- detection of chlorine and fluorine in, by laser-induced breakdown emission spectrometry, 3H18
- detection of 1,6-di-isocyanatohexane and 1,1'-methylenebis-(4-isocyanatobenzene) in, with sampling tubes incorporating 4-nitro-N-propylbenzylamine, 2H25
- detection of hydrocarbons in, by g.c. with photo-ionization detection and f.i.d., 6H30
- detection of nerve gases in, 4H6
- detection of nitro-derivatives of PAH in, by pre-resonance Raman spectrometry, 9C33
- detection of nitrogen dioxide in, by spectrometry with micro-photodiode detector array, 4H23
- detection of pollutants in, review, 8H6
- detection of radon decay products in, portable monitor for, 11H10

Air—continued

- detmn. of acetaldehyde in, by g.l.c., collection method for, 3H22
- detmn. of acetone in, by colorimetry and g.c., 8H27
- detmn. of acids in, sampler for, 11H13
- detmn. of alcohols in, by g.l.c., 8H28
- detmn. of aldehydes in, by on-column derivatization and h.p.l.c., 5H31
- detmn. of ammonia and amines in, by ion chromatography, 1H14
- detmn. of ammonia and nitric acid in, by tungsten^{VI} oxide technique, automated, 3H9
- detmn. of ammonia in, colorimetric, 4H24
 - optical waveguide sensor for, 3H12
- detmn. of anaesthetics in, in operating theatres, by g.c., 4H10
- detmn. of aromatic compounds in, by g.c., 4H41
- detmn. of arsenic in, efficiency of filter sampling for, 9H19
 - filter and charcoal tube system for, 1H11
- detmn. of arsine in, by chemiluminescence, instrument optimization in, 4H22
 - spectrophotometric, 9H17
- detmn. of asbestos fibres in, by i.r. - a.t.r. spectrometry, 10H31
 - by membrane filter method, 3H4
 - by transmission electron microscopy, membrane-filter direct-transfer technique for, 5B271
- detmn. of asbestos in, by electron microscopy, 5H12
 - by transmission electron microscopy, reference method for, 5H11
 - membrane filter in, 4H14
 - sample preparation in, 7H10
- detmn. of beryllium in, by laser-induced breakdown emission spectrometry of aerosols, 3J79
- detmn. of boron in, by spectrophotometry, 6H18
- detmn. of butenes in, silver-treated zeolite for pre-concentration in, 8H22
- detmn. of caffeine in, by g.l.c., 2H29
- detmn. of C₁ and C₂ halocarbons in, by g.c. - m.s., 7H19
- detmn. of carbon dioxide, carbon monoxide and hydrocarbons in, by g.c., 4H31
- detmn. of carbon dioxide in, by conductometry, sensor for, 1H9
 - by g.c., 12H19
 - lidar instrument for, 10H21
- detmn. of carbon monoxide in, by dynamic coulometry, 1H10
 - by g.c., 10H20
 - by spectrophotometry, 4H20, 7H14
 - i.r. filters in, 5H17
 - laser spectrometer for, 12H18
 - personal sampler for, 3H8
 - semiconductor sensor for, 7J127
- detmn. of cationic surfactants in, by spectrophotometry with picric acid, 4H46
- detmn. of chloride in, by g.c. and a.a.s., 12H28
- detmn. of chlorine in, fluorimetric, improved sampling in, 10H30
 - solid-state instrument for, 11H19
- detmn. of 3-chloropropene and by-products of its manufacture in, by g.l.c., 7H18
- detmn. of chromium^{VI} in work-place, reduction - catalytic polarographic, 10H27
- detmn. of copper in, by anodic-stripping voltammetry, 12H16
- detmn. of C₂ to C₅ aliphatic acids in, by g.l.c., 8H26
- detmn. of C₂ to C₆ carboxylic acids in, by g.l.c., stationary phases for, 8H23
- detmn. of cyhexatin and its metabolites in, by t.l.c., 6H4
- detmn. of 1,2-dichlorobenzene in, by g.l.c., 12H36
- detmn. of dichlorofluoromethane in, preparation and stability of standards for, 4H34
- detmn. of dicyanodiamide - formaldehyde resin in, by g.l.c., 5H35
- detmn. of *NN*-dimethylcyclohexylamine in, by g.c. - m.s., 2H26
- detmn. of dimethylmercury and methylmercury chloride in, by g.c. - a.a.s., 4H18
- detmn. of Donbass-1 inhibitor in, by t.l.c., 7H21
- detmn. of dust in, by electron-energy absorption, 5H9
 - from metallurgical industries, device for continuous radiometric, 5H13
- detmn. of ethylenediamine in work-room, sampling for, 10H34
- detmn. of ethylene oxide and ethylene dibromide in, by g.c., portable systems in, 2H24
- detmn. of 2-ethylhexyl diphenyl phosphate in, spectrophotometric, 8H34
- detmn. of ethyl methyl ketone in, by g.c., 3H24
 - detmn. of fatty acids in, by g.c., pre-column for, 8H29
 - by g.l.c., 3H23
- detmn. of fibres in, review, 11H6
- detmn. of fibrous dusts in, 12H14
- detmn. of fluoranthene and anthracene in, by laser-induced molecular fluorescence spectrometry, 2H27
- detmn. of formaldehyde and acetaldehyde in, by g.c. or h.p.l.c., 11H23
- detmn. of formaldehyde in, automated, 4H36
 - by chemiluminescence, 9H28
 - by colorimetry, 1H20, 2H23
 - fluorimetric, 8H24
 - generation of test atmosphere for, 1H22
 - monitor for, 12H37
 - passive sampling device for, 2H22

Air, detmn. of formaldehyde in,—continued

- piezoelectric crystal detector in enzymic, 4H35
- sample loss in, 1H21
 - with passive collectors, 11H25
- detmn. of formaldehyde in work-place, spectrophotometric, 8H30
- detmn. of formic acid in, by h.p.l.c., 3H19
- detmn. of gaseous and particulate fluorides in, ion-selective electrode in, 9H24
- detmn. of gaseous pollutants in, microwave spectrometer for, 9H5
- detmn. of halo-hydrocarbons in, by g.c., 1H18
- detmn. of halothane in, of operating theatres, aerosol ionization detector for, 9H34
- detmn. of heavy metals in, by differential pulse anodic-stripping voltammetry, 5H14
- detmn. of heavy metals in road-traffic-polluted, 5H15
- detmn. of hexachloroacetone in, by g.c., 3H20
- detmn. of hydrocarbon solvents in, instruments for, 6H31
- detmn. of hydrogen and carbon monoxide in, proton-conductor sensor for, 6J6
- detmn. of hydrogen chloride in, optoacoustic, 3H16
- detmn. of hydrogen cyanide in, by spectrophotometry, 3H7
- detmn. of hydrogen-3 in, molecular sieve in, 2H9
- detmn. of hydrogen sulphide in, by g.l.c., interference in, 6H22
 - by laser absorption spectrometry, 2B66
 - passive badge sampler for, 12H26
 - with ion-selective electrode, 8H17
- detmn. of impurities in, with sorption tubes, 5H7
- detmn. of ink mist and benzo[*a*]pyrene in, in newspaper printing rooms, 6H40
- detmn. of iodine, nitrogen dioxide and ozone in, solid-state electrochemical sensor for, 5H27
- detmn. of isocyanic acid in, by g.c. with thermionic nitrogen detection, 9H16
- detmn. of isotopes of nitrogen and oxygen in, by cryogenic sepn. - m.s., 10H22
- detmn. of krypton-85 in, by chromatography - liquid scintillation, 6H15, 6H16
 - by trapping - liquid scintillation counting, apparatus for, 10H19
 - from nuclear installations, by γ -ray spectrometry, 4H16
- detmn. of long-lived radionuclides in, 5H2
- detmn. of lower carboxylic acids in, by ion chromatography, 6H32
- detmn. of magnesium oxide in, by photometry, 5H16
- detmn. of mercury in, 7H13
 - by a.a.s., palladium chloride enhancement in, 5H1
 - by flameless a.a.s., gold collector in, 1H8
 - by fluorimetry, 8H13
 - by gold amalgamation and flameless a.a.s., 1H7
 - by spectrography, 4H19
- detmn. of metals in, by a.a.s., a.e.s. or a.f.s., review, 2H8
- detmn. of methane in, long-range tracer for, 4H33
- detmn. of methanol in, spectrophotometric, 11H24
- detmn. of 3-methylbut-2-enoic acid and its ethyl ester in, by g.c., 8H25
- detmn. of minor gases in, spectroscopic, review, 9H4
- detmn. of mycotoxins in, by h.p.l.c. - t.l.c., 8H35
- detmn. of nitrapyrin in, by g.l.c. or t.l.c., 7H6
- detmn. of nitric acid in, by h.p.l.c., 7H15
- detmn. of nitric oxide, nitrogen dioxide and nitric acid in, by absorption spectrophotometry with tunable diode laser, 2H14
- detmn. of nitric oxide and nitrogen dioxide in, 10H23
- detmn. of nitric oxide in, by computer-controlled second-derivative spectrometry, 10H25
- detmn. of nitrogen dioxide, nitric acid or propyl nitrate, by reduction to nitric oxide and chemiluminescence, 5H22
- detmn. of nitrogen dioxide and nitric oxide in, personal sampler for, 2H15
- detmn. of nitrogen dioxide in, by bacterial electrode, 7J130
 - by g.l.c., 3H10
 - by laser-absorption spectrometry, 9H20
 - by spectrophotometry, 10H24
 - by thermal-lens spectrophotometry, 5H21
- diffusional sampler for, 1H13
- passive sampler for, 6H19
- personal samplers for, 6H21
- radio-release method for, 3B66
- detmn. of nitrogen oxides in, apparatus for chemiluminescent, 3B67
 - by chemiluminescence, 12H20
 - by photometry, 4H26
 - by spectrophotometry, 3H13
- detmn. of nitrous oxide in, by g.c. with ionization detectors, 9H21
- detmn. of odorous sulphur compounds in, by g.c., 4H29
- detmn. of organic and inorganic particulate pollutants in, 7H2
- detmn. of organic compounds in, 2H19
- detmn. of organic pollutants in, by g.c. - m.s., review, 8H21
- detmn. of organic solvents in, by g.c., 7J56
 - by g.l.c., 3H17
 - diffusional sampler for, 1H17
- detmn. of oxiran in, by automated g.c., 1H19
 - by reaction with hydrochloric acid and g.l.c., 7H24
- detmn. of oxygen-containing organic compounds in, by g.c., 6H27
- detmn. of PAH, dioxins and pesticides in, by liquid carbon dioxide extraction - g.c. - m.s., 9H32

Air—continued

- detmn. of PAH in, by g.c., 12J64
by h.p.l.c. and g.c. - m.s., 6H39
from incinerator, in-stack dilution technique for, 11H27
sampler for, 5H32
detmn. of particulate elements in, by PIXE, 10H3
detmn. of peroxyacetyl nitrate in, by g.c., 3H25
by g.l.c., preparation of calibration mixture for, 9H29
generator for calibrating analysers for, 12J3
detmn. of pesticides and other organic pollutants in, by g.c. and t.l.c.
after pre-concentration on Tenax-GC, 8H4
detmn. of pesticides in, by t.l.c., 11H29
detmn. of phenanthrene and octadecane in, 4H21
detmn. of phenol in, by g.c., 9H30
detmn. of plutonium-241 in, by liquid scintillation counting, 2H11
by liquid scintillation spectrometry, 5H87
detmn. of plutonium in, continuous monitor for, 9H15
detmn. of polar organic compounds in, by g.c., 11J58
review, 9H25
detmn. of pollutants in, aerosol ionization detector for, 4H9
by g.l.c., calibration mixtures for, 5J7
calibration of apparatus for, 8H16
of metallurgical plants, by g.c., review, 6H6
detmn. of polycyclic aromatic hydrocarbons in, by t.l.c., 2H10
detmn. of potential alpha-energy concn. of radon decay products in
indoor, by concurrent counting in two channels, 10H13
detmn. of pyrazoles in, by g.c., 8H32
detmn. of pyrethroids in, by g.c. and t.l.c., 10H38
detmn. of pyruvic acid and methanesulphonic acid in, by ion
chromatography, 10H33
detmn. of radio-iodine in, high-volume sampler for, 10H29
silver-containing sorbents for concentration of, 11H18
detmn. of radon and its daughters in, detection systems for, 10H17
detmn. of radon and thoron daughters in, by α -particle counting, 9H13
detmn. of radon daughters in, α -dosimeter for, 9H14
detmn. of radon in, by enhanced α -track method, 6H14
detmn. of radon-222 in, by liquid scintillation spectrometry, 10H11
detmn. of radon in, calibration of etched-track detectors for, 10H14
charcoal adsorption methods for, 10H12
instrument for, 8H11
interlaboratory comparison of calibrations for, 10H16
monitoring systems for, 10H18
passive dosimeter with nuclear track detector for, 11H11
semiconductor detector and electrostatic precipitator in, 5B26
detmn. of radon-222 - radon-220 mixtures in, by gross α -counting, 8H12
detmn. of resmethrin in, by t.l.c. - spectrophotometry, 2H4
detmn. of solvents in, grab-sampling technique for, 12H34, 12H35
detmn. of sulphate in, by ion chromatography, 8H18
detmn. of sulphur dioxide, nitrogen dioxide and hydrogen chloride in,
laser systems for, 12H12
nitrogen dioxide and nitrate in, u.v. - visible spectrometer for, 12H22
nitrogen oxides and ozone in, personal monitors for, review, 9H23
detmn. of sulphur dioxide and nitrogen dioxide in, by atmospheric
pressure-ionization m.s., 6H20
detmn. of sulphur dioxide and trioxide in, review, 10H28
detmn. of sulphur dioxide in, by chemiluminescence, 12H24
by g.c., 3H14
colorimetric, 4H28, 9H22
laser thermal lensing detection in colorimetric, 9B116
"lead candles" in, 5H25
leadII-selective electrode in, 7B97
passive monitor for, 11H17
spectrophotometric, 10H26
detmn. of sulphur hexafluoride in, by i.r. spectrophotometry, 5H26
detmn. of sulphuric acid and sulphate in, by photometry, 6H25
detmn. of sulphur in, by titrimetry, 3H15
cadmium-selective electrode in indirect, 2B65
detmn. of terbufos in, personal sampling system for g.c., 5H37
detmn. of tetra-alkyl-lead in, by a.a.s. after electrostatic capture, 5H36
detmn. of toluene in, piezoelectric crystal detector in, 4H38
detmn. of trace aliphatic amines in, by g.l.c., 6H33
detmn. of trace elements in, 11J84
by XRF, 12H15
detmn. of trace halohydrocarbons in, by g.c., simplified purge-and-trap
method in, 12H84
detmn. of traces of particulate and gaseous arsenic compounds in, by
a.a.s., 8H15
detmn. of tritiated water vapour in, non-volatile liquid scintillant
sorbent in, 11H12
detmn. of vanadium in, by d.c. plasma a.e.s., 5H24
detmn. of water in, by g.l.c., 2C9
chemical micro-sensors in, review, 9J123
detmn. of water vapour in tropospheric, review, 9H6
extraction of pesticides from, by steam-distillation, 10G18
identn. of aromatic amides and phenols in, by derivative spectropho-
tometry, 1H2
identn. of asbestos fibres in, by light and X-ray microscopy, 12H1
identn. of fibres in, automated, review, 11H7
identn. of odorous organic compounds in, by g.c. - m.s., 12H31
identn. of PAH in, by g.c. - m.s., 6H37

Air—continued

- identn. of particulate matter in, by X-ray diffraction, 5H10
monitoring of, gas analyser in, standard gas mixtures for, 1J9
uniform practice for, review, 5H4
monitoring of ammonia in, personal sampler for, 1H12
monitoring of dust in, optical, 11H4
monitoring of formaldehyde in, 2H21
monitoring of hazardous compounds in, accuracy of passive samplers
for, 11H22
monitoring of nitric oxide in, by laser, 3H11
monitoring of pollutants in, by repetitive-scanning derivative spec-
trometry, 7H9
monitoring of tropospheric, laser instruments in, review, 8H5
monitoring of volatile organic compounds in, evaluation of instruments
for, 4H32
prep. of standard mixtures of volatile substances with, 12J2
remote detection of pollutants in, by laser and optical techniques, 4H8
review, 6H7
samplers for, at hazardous-waste sites, 5H6
automated, 10H1
of aluminium-reduction plants, 5H5
sampling of, fluorocarbon-film bags in, contamination of, 4H7
in stacks, review, 8H20
sampling of aerosols in, piezoelectric instrument for, 2H7
sampling of amines in, Chromosorb 103 adsorbent for, 10H35
sampling of aromatic hydrocarbons in, tube for, 11H26
sampling of benzene, toluene and *m*-xylene in, by sorption on activated
carbon, 4H39
sampling of gases from, diffusion denuder assembly in, 12H11
sampling of gases from work-place, device for, 7H8
sampling of glyceryl trinitrate, ethanediol dinitrate and isopropyl
nitrate in, sorbents for, 2H30
sampling of hexahydro-1,3,5-trinitro-1,3,5-triazine from work-place,
5H34
sampling of mercury in, gold-wire trap in, 4H17
sampling of metals in, cascade impactors in, 10H9
sampling of 1,1'-methylenebis-(4-isocyanatobenzene) from, 8H31
sampling of methylene chloride, chloroform, carbon tetrachloride and
benzene in, by sorption on Tenax-GC, 2H20
sampling of nitrate and ammonium from, loss from filters in, 10H4
sampling of organic compounds in, effect of r.h. of air on efficiency of
solid adsorbents for, 12H30
effects of reactive inorganic gases on Tenax-GC in, 12H33
polyimide sorbents for, 9H26
retention properties of samplers for, 1H16
sorbents for, 9H27
sampling of organic nitro-compounds in, sorbents for, 4H37
sampling of organic vapours in, device for removal of water in, 5H30
sampling of paint vapours in, passive diffusion samplers for, 11H30
sampling of pollutants in, adsorbents for, effect of thermal pre-
treatment on, 3H2
high-performance denuder for, 6H8
sampling of printing-ink solvents and toluene in, 4H40
sampling of sulphur dioxide in, oxalohydroxamic acid in, 11H15, 11H16
tube diffusion dosimeter for, 4H27
sampling of total suspended particulate matter in, 10H6
sepn. of trace pollutants from, adsorption - thermal, 12H29
Air-borne particulates, analysis and size classification of, review, 7H7
analysis of, by laser m.s., 10H5
by XRF, 2J65
analysis of organic compounds adsorbed on, by g.c. - m.s., 8H19
characterization of, in diesel-engine exhaust gases, on SII Chromarods,
12C46
counting of, instruments for, 12H10
detmn. of, in air, effect of alkalinity of filters on, 11J8
in air of aluminium-reduction plants, sampler for, 5H5
detmn. of alkanes and carboxylic acids in, by g.c., 3H21
detmn. of alkylating activity in, by fluorimetry, 5H29
detmn. of anions in, by ion chromatography, 6H9
detmn. of antimony in, by hydride-generation a.a.s., 5H20
detmn. of arsenic, cadmium, copper, lead and zinc in, by flame a.a.s.,
2H13
detmn. of benzo[a]pyrene in, by g.c. - m.s., 8H33
detmn. of boron in, by spectrophotometry, 6H18
detmn. of bromide in, by ion chromatography, 5H28
detmn. of heavy metals in organic, by laser micro-probe mass analysis,
11B38
detmn. of inorganic sulphur in, titrimetric, 12H21
detmn. of lead in, by a.a.s., 3H6
detmn. of metals in, by XRF, 11H9
detmn. of nitro-PAH in, by g.l.c., 9H33
by h.p.l.c. - g.c. - thermal energy analyser, 12H39
detmn. of 1-nitropyrene in, by g.l.c., 7H22
detmn. of organic compounds in, extraction in, 6H28
detmn. of PAH in, by g.l.c., 6H36
by h.p.l.c. and g.l.c., 10H36
by luminescence and phosphorescence, 11H28
by thermal desorption - g.c., 10H37
detmn. of pigments and benzidine derivatives in, by h.p.l.c., 1H23
detmn. of pyruvic acid and methanesulphonic acid in, by ion
chromatography, 10H33

Air-borne particulates—continued

- detmn. of sodium carbonate, alumina and silica in, by lidar spectrometry, 10H2
- detmn. of sulphur in, 6H23, 6H24
- detmn. of trace metals in, ultrasonic extraction in, 7H12
- identn. of, by X-ray diffraction, 5H10
- identn. of PAH in, by h.p.l.c., 7H23
- measurement of wt. of, collected on filters, effect of r.h. on, 8H8
- particle size analysis of, from Hi-Vol data, 1H5
- samplers for, 6H5
- passive, 11H5
- sampling of, equipment for, 4H13
- in air, apparatus for, 4H21
- instrumentation for, 4H12
- portable device for, 3H3
- ultra-high-vol. device for multiple-filter, 9H10
- sampling of carbonaceous, 7H17
- Alachlor**, detmn. of, by phosphorimetry, 5G32
- detmn. of residues of, in vegetables, by capillary g.c., 9G19
- Alanine**, detmn. of, by h.p.l.c., 3D148
- in sea-water, by h.p.l.c., 3H62
- detmn. of enantiomers of, in bacteria, by g.c. with e.c.d. or selected-ion monitoring, 8D170
- , **dehydro-**, detmn. of, in alkali-damaged wool, 10C75
- , **3,4-dihydroxyphenyl-**, detmn. of, by voltammetry at gold, graphite or platinum electrodes, 9D177
- α -Alanine, dinitrophenyl-**, sepn. of, by liquid chromatography, 2D158
- Alanine, phenyl-**, detection of enantiomers of, by ligand chromatography, 6D218
- α -Alanine, phenyl-**, detection of, by microbiological assay with electrochemical detection, review, 1J101
- detmn. of, in serum, by h.p.l.c., 7D172
- enzymic, 9D185
- in serum or plasma, kinetic spectrophotometric kit for, 10D169
- in urine and serum, by h.p.l.c., 8D166
- simultaneously with galactose, in dried blood, automated continuous-flow, 9D183
- Alanine aminotransferase**, assay of, in plasma or serum, threshold-value test for, 9D256
- standards for, 5D237
- β -Alanine betaine**, sepn. of, in plants, by cation-exchange h.p.l.c., 12D158
- Alanyl-tRNA synthetase**, assay of, by spectrophotometry, 4D335
- Albacore tuna**, detmn. of mercury in, by a.a.s., 4D39
- Albendazole**, detmn. of, in biological materials, by h.p.l.c., 10D107
- Albumin**, analysis of, by X-ray micro-method, aluminium-carbon films as standards for, 7D16
- detection of bovine serum, by isotachopheresis, 9J48
- detmn. of, by direct potentiometry, 7D186
- by flow-injection chemiluminescence, 11D205
- by immunoassay, iron^{III} - phthalocyanine labelling reagent for, 5D204
- in cerebrospinal fluid, 6D235
- in human serum, by homogeneous substrate-labelled fluorescence immunoassay, 8D202
- by indirect chemiluminescence, 12D190
- in plasma, by fluoro-immunoassay with Lucifer yellow VS, 8D199
- in plasma and serum, automated spectrophotometric, 3D199
- in plasma and urine, by immunoassay, 1D154
- in presence of detergents, by electroimmunodiffusion, 4D255
- in serum, bromocresol purple in automated spectrophotometric, 6D252
- by dye-binding method, 9D209
- by dye-binding with bromocresol green, 10D208
- by electroimmunoassay, 4D253
- by fluoro-immunoassay, dye as label for, 1D170
- by multi-layer film bromocresol green method, 12D187
- dye methods for, 2D196
- modified bromocresol purple method for, 6D253
- spectrophotometric, 12D191
- with bromocresol green, 12D188
- in serum and plasma, by centrifugal analyser, bromocresol green in, 2D198
- in serum of cattle, sheep and horses, by bromocresol green reaction and electrophoresis, 9D212
- detmn. of *N*-acetyltryptophan and octanoic acid in preparations of, by g.l.c., 9E59
- detmn. of bound fluorescein and fluorescein isothiocyanate in, by phase-resolved fluorimetry, 10D202
- detmn. of glycosylated, in serum, kit for, 10D183
- detmn. of hexosamines in, by h.p.l.c., 6D151
- detmn. of human serum, bromocresol purple in automated, 10D207
- by immunoassay, 6D249
- by solid-phase luminescent catalyst immunoassay, 8D200
- catalytic immunoreactor in electrometric, 8D201
- detmn. of polymers in serum, by electrophoresis, 4D252
- extraction of, from polyacrylamide gels, electrophoretic, 10D187
- sepn. of, by h.p.l.c., 3D194
- from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- sepn. of bovine serum, from concanavalin A, by affinity chromatography, 1D166

Albumin—continued

- sepn. of oligomers of bovine serum, by high-performance electrophoresis, 5J45
- sepn. of serum, in milk, gel-permeation or anion-exchange chromatographic, 2F26
- Alcohol dehydrogenase**, assay of, in liver of rat, by enzyme-linked immunoadsorbent method, 4D302
- identn. of isoenzymes of, by electrophoresis, 1D200
- Alcohols**, analysis of, by h.p.l.c. on strong cation-exchange resin, 12C1
- detection of, basic dyes for, 6C3
- decolorized dyes for, 6C2
- in air at hazardous-waste sites, sampler for, 5H6
- detmn. of, by g.c. with direct aq. injection, 10C2
- by h.p.l.c., esterification reagent for, 6C7
- by h.p.l.c. - post-column reaction - fluorimetry, 7C10
- enzyme electrode and thermistor probe for, 7J132
- in acetic acid, by head-space g.c., 8C17
- in air, by g.l.c., 8H28
- in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- in aq. soln., enzyme-immobilized oxygen electrode in, 5J178
- in blood and faeces, by g.l.c., 2D116
- in complex mixtures, by g.c., 6C40
- in Fischer-Tropsch products, by g.l.c. and liquid chromatography, 8C7
- in food, by ion chromatography with amperometric detection, 3J36
- in gasoline, by g.c. with i.r. detection, 11C37
- by h.p.l.c., 9C51
- in liqueurs and dairy products, by densitometry, 4F74
- in reaction mixture from sulphation of secondary aliphatic alcohols, by liquid chromatography, 4C30
- in urban air, by g.c., 6H27
- reagents for fluorimetric, 5A11
- detmn. of ethoxylated, by h.p.l.c. with fluorimetric detection, 12H92
- detmn. of higher, in grappa, by g.l.c., 6F77
- detmn. of polyhydric, in polyethers, by pyrolysis - g.c., 12C74
- in urine and serum, by g.c. - m.s., 6D152
- detmn. of primary, by dual-capillary-column g.c., 11C5
- detmn. of sugar, in pharmaceutical preparations, by h.p.l.c., 11E54
- detmn. of unsaturated terminal groups in polyether, by laser Raman spectrometry, 1C39
- sepn. of, by g.s.c., cyclodextrins and methylated cyclodextrins as stationary phases for, 10J71
- by g.s.c. and g.l.c., α - and β -cyclodextrins as stationary phases in, 10J72
- by h.p.l.c., 3C8
- sepn. of C_8 to C_{18} straight-chain, by g.l.c., 10C12
- sepn. of unsaturated, and their esters, by g.l.c., 12C12
- by g.c. on polar and non-polar capillary columns, 5C17
- , **aliphatic**, detmn. of, by h.p.l.c., u.v.-absorbing species in, 12C11
- in mixtures of organic compounds, by g.l.c., 7C9
- detmn. of isomers of, by g.l.c., 1C5
- detmn. of products of chlorination of 3-thiolen 1,1-dioxide in, by g.c., 10C13
- sepn. of, by g.l.c., 4C10
- structure elucidation of long-chain, by g.c., 8C10
- , C_1 to C_{12} , sepn. of acetates and bromoacetates from, by g.c., 12C10
- , C_6 to C_{10} , detmn. of, enzymic - spectrophotometric, 5C14
- , C_8 to C_{16} , detmn. of, in sodium alkyl sulphates, by h.p.l.c. as alkyl naphthyl urethans, 7C72
- , **amino-**, detmn. of condensates of fatty acids with, by t.l.c. - f.i.d. or t.l.c. - i.r., review, 8C68
- sepn. of isomers of, by g.c., 9C21
- , **aromatic**, sepn. of, by liquid chromatography, cyclodextrin phases for, 5C3
- , C_1 to C_5 , cation-exchange chromatography of, 11C7
- , C_3 to C_5 , g.c. of branched-chain, as alkanoyl and monochloroalkanoyl esters, 5C16
- Alcuronium chloride**, detmn. of, in plasma, by h.p.l.c., 5D87
- Aldehyde dehydrogenase**, identn. of isoenzymes of, by electrophoresis, 1D200
- Aldehyde oxidase**, assay of, pyridoxal and 2,2'-azinobis-(3-ethylbenzothiazoline-6-sulphonate) in, 6D290
- Aldehydes**, analysis of, by h.p.l.c. on strong cation-exchange resin, 12C1
- detection of, basic dyes for, 6C3
- decolorized dyes for, 6C2
- detmn. of, after oxidation with potassium permanganate - crown ether complex, 4C14
- by g.c. with direct aq. injection, 10C2
- by h.p.l.c. - post-column reaction - fluorimetry, 7C10
- in cold-pressed citrus oils, by g.c., 11F38
- in combustion gases, colorimetric, 7H20
- in complex mixtures, by g.c., 6C40
- in mixtures of organic compounds, by g.l.c., 7C9
- in periodate-oxidized glycol systems, by spectrophotometry, 6D153
- in urban air, by g.c., 6H27
- in water and wine, by g.l.c., 3H58
- review, 12C17
- detmn. of aliphatic, in air, by on-column derivatization and h.p.l.c., 5H31

Aldehydes—continued

- sepn. of, by h.p.l.c. as 2,4-dinitrophenylhydrazones, 1C14
- Aldicarb**, detmn. of, and its metabolites, in sugar-beet leaves and aphid feeds, by t.l.c., 12G15
- by g.c. - chemical-ionization m.s., 3G19
- in tobacco, by h.p.l.c., 3G20
- Aldoxa**, detmn. of, in pharmaceutical preparations, by spectrophotometry, 7E43
- Alditol acetates**, sepn. of, by g.l.c., 2C18
- Alditols**, detmn. of, by h.p.l.c., as dimethylphenylsilyl derivatives, 1D89
- Aldohexoses**, detmn. of, by oximetric titrimetry, 2C15
- Aldolase**, sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- Aldoses**, detmn. of, by h.p.l.c., 5C20
- , **O-methyl-**, detmn. of, in polysaccharides, by g.l.c. and g.l.c. - m.s. as *O*-isopropylidene derivatives, 8D108
- Aldoximes**, sepn. of, quaternary pyridinium, by cation-exchange h.p.l.c., 7E44
- Aldrin**, detmn. of, by t.l.c., 2G17
- in sewage sludge, by g.c., 6H103
- Algae**, detection of fatty acids in, by g.c. - m.s., 3D107
- detection of radioactive isotopes in, contaminated by nuclear waste, by X-ray spectrometry, 9D14
- detmn. of aluminium in, by spectrophotometry, 10B53
- detmn. of arsenic in, by a.a.s., digestion in, 4D52
- detmn. of chlorophylls and carotenoids in, by h.p.l.c., 2H64
- detmn. of dimethylsulphoniopropionate in, by g.l.c., 8D104
- detmn. of inorganic and organic arsenic in marine brown, by a.a.s., 6D46
- detmn. of molybdenum in, by ion exchange - spectrophotometry, 4D57
- detmn. of nucleosides and bases in, by ion-exchange chromatography, 6D277
- detmn. of selenium in, by a.a.s., 3D26
- detmn. of trace elements in, by PIXE, 11D13
- sampling of, 10D219
- Alginate**, detmn. of, uronic acids in, by h.p.l.c., 1D90, 3D95
- Alginic acid**, detection of homopolymeric degradation products of, by electrophoresis, 4D148
- Aligeron**, detmn. of, in pharmaceutical preparations, by polarography, 11E41
- Alimentary pastes**, detmn. of egg in, by radial immunodiffusion, 4F26
- detmn. of water in, gravimetric, 7F36
- noodles, detmn. of L-glutamic acid in, enzymic, 7F80
- detmn. of monoglycerides in, by g.l.c., 11F7
- identn. of fatty acids in, by g.l.c., as indication of egg content, 7F13
- Alkali-metal chlorides**, detmn. of metals in, by a.a.s., 3B23
- Alkali-metal chlorostannates**, analysis of, by a.a.s., 2B53
- Alkali-metal halides**, detmn. of tungsten in, by spectrophotometry, 10B127
- Alkali-metal octahydrotriborates**, detmn. of, by acidic titrimetry, 7B53
- Alkali metals**, cation-exchange behaviour of, in hydrofluoric acid soln., 1B2
- detmn. of, by ion chromatography, 6B37
- by modified normal pulse polarography, 8B21
- by potentiometry, electrodes for, 9J126
- in aluminium yttrium garnet, 9B191
- in minerals, ores and rocks, by n.a.a., 4B194
- in sodium, by a.e.s., 3B25
- with ion-selective electrodes, 5J170
- extraction of, as complex with crown ether, 2B9
- crown ether derivatives of ferrocene in, 9B14
- in presence of non-ionic surfactant, 7B23
- macrocylic lactones in, 3B9
- (phenylamino)methyl-substituted crown ethers in, 10B27
- ion-exchange behaviour of, with crown ether - tungstophosphoric acid ppt., 11B20
- m.s. of crown ether complexes of, 5B9
- sepn. of, by cation exchange on silica, 12B2
- by h.p.l.c., crown ether-containing stationary phases for, 9B17
- by ion chromatography, 6J47
- by ion exchange, material for, 9J40
- by ion-exchange chromatography, 6B36
- solvent extraction of, with derivatives of dibenzo-18-crown-6, 7B24
- Alkali-metal tetrahydroborates**, detmn. of, by acidic titrimetry, 7B53
- Alkaline-earth metals**, cation-exchange behaviour of, in hydrofluoric acid soln., 1B2
- detmn. of, by ion chromatography, 6B37
- by potentiometry, electrodes for, 9J126
- in magnesium fluoride, 9B35
- in minerals, ores and rocks, by n.a.a., 4B194
- in sodium, by a.e.s., 3B25
- extraction of, as complex with crown ether, 2B9
- crown ether derivatives in, 5B9
- macrocylic lactones in, 3B9
- sepn. of, by cation exchange on silica, 12B2
- by electrochromatography on sulphonated copolymer, 5B56
- by ion chromatography, 6J47
- by ion-exchange chromatography, 6B36
- by paper electrophoresis, complexing agents in, 2B24
- Alkaline-earth-metal salts**, analysis of, by X-ray photoelectron spectroscopy, 2B5

- Alkalinity**, measurement of, of industrial water, 9H36
- Alkaloids**, analysis of, by h.p.l.c. - m.s., 7J37
- detection of, in illicit drugs, by g.l.c., 6E6
- on t.l.c. adsorbents, 5E7
- detection of ergot, by quadrupole m.s. - m.s., 1E9
- detmn. of, in *Rauwolfia serpentina*, by h.p.l.c. and t.l.c., 2E14
- in crude plant extracts, by t.l.c., 8E6
- in food, review, 8F1
- in pharmaceutical preparations, potentiometric, 2E1
- in *Iphigenia* spp., by paper chromatography, 6E12
- of *Papaver somniferum*, by h.p.l.c., 3E5
- spectrophotometric reagents for, 5D49
- detmn. of isoquinoline, by t.l.c., 11E7
- detmn. of toxic, in plants, review, 11D112
- detmn. of Vinca, in tissues, by h.p.l.c., 6D55
- identn. of, in plants, by chemical-ionization m.s., 9E3
- m.s. of derivatized 1-benzyltetrahydroisoquinoline, 10D162
- sepn. of *Tabernaemontana*, by h.p.l.c., 10E6
- sepn. of, by h.p.l.c. with photodiode-array detection, data treatment in, 7A16
- by t.l.c., 1E6, 1E7
- Alkanes**, detmn. of, by dual-capillary-column g.c., 11C5
- by g.c., effect of bracketing alkanes on, 6C6
- by photo-dissociation m.s., 7J111
- in air-borne particulates, by g.c., 3H21
- in gasoline, by g.c., 5C68
- in sea-water, by g.c. or h.p.l.c., 8H77
- in suntan preparations, by h.p.l.c. and g.l.c., 1C31
- detmn. of moisture in, by g.l.c., 5C12
- g.l.c. of, calculation of Kovats retention indices in, 8A15
- identn. of, in candles and matches, by g.l.c., 2C76
- sepn. of, by capillary g.c., on-column and split injection in, 4J58
- by g.l.c., stationary phase for, 7J60
- by g.s.c., cyclodextrins and methylated cyclodextrins as stationary phases for, 10J71
- sepn. of high-boiling, by g.c., eutectic inorganic salt melts as stationary phases for, 10J68
- , **bromo-**, detmn. of, in water, as 2-naphthyl ethers, 8H78
- , **chloro-**, analysis of, by g.c. - m.s., 8C9
- detmn. of, in water, as 2-naphthyl ethers, 8H78
- by g.c. - m.s. after recovery by closed-loop stripping, 5H73
- sepn. of, in plasticizers, by h.p.l.c. and t.l.c., 11C67
- , **halo-**, detmn. of, by g.c. with molecular-emission-cavity detection, 5C13
- in water, by g.l.c., 10H73
- Alkanols**, detmn. of, in suntan preparations, by h.p.l.c. and g.l.c., 1C31
- , **iso-**, detmn. of, by g.s.c., 5C15
- Alkenes**, detmn. of, in reaction mixture from sulphation of secondary aliphatic alcohols, by liquid chromatography, 4C30
- sepn. of enantiomers of, by g.c., 7C11
- liquid-chromatographic, 11C6
- , **chloro-**, detmn. of, in water, by g.l.c., 10H73
- Alkoxy-groups**, detmn. of, as iodoalkane, 4C7
- in etherified melamine - formaldehyde condensates, by reductive iodination - g.l.c., 10C81
- Alkylating agents**, detmn. of, in air-borne particulate matter, by fluorimetry, 5H29
- Alkynes**, n-, analysis of, by capillary g.c. on squalane and liquid crystal stationary phases, 12C8
- Allantoin**, detmn. of, in plasma, by h.p.l.c., 6D128
- Allethrin**, detmn. of, in grain, by g.l.c. - e.c.d., 7G37
- review, 11G40
- Allidochlor**, detmn. of, in leeks, by g.l.c., 9G20
- Allopurinol**, detmn. of, in serum, plasma and urine, by h.p.l.c., 11D106
- Alloxan**, detmn. of, by bromination and spectrophotometry, 5E6
- Alloys**, analysis of, automated apparatus for fusion before ICP a.e.s., 6J18
- by a.a.s., 1B123
- by electrothermal a.a.s., 11B1
- by secondary neutral m.s., 7J115
- by X-ray micro-probe, 3B6
- cemented carbide, clustering algorithm for, 7A10
- collector for laser sampling in, 8B3
- computer-controlled direct-reading spectrograph for, 12B147
- controlled atmospheres for spectrographic, 1B127
- microwave system for acid dissolution of samples in, 8B1
- analysis of binary, by Auger-electron spectrometry, 1B9
- analysis of surfaces of, sensitivity factors in ion-scattering spectroscopic, 9J117
- detmn. of bismuth and antimony in, by voltammetry, 10B104
- detmn. of bismuth in, extraction - spectrophotometric, 9B108
- detmn. of boron in, by spectrophotometry, 1B128
- detmn. of cobalt and nickel in, reagent for spectrophotometric, 2B78
- detmn. of copper and palladium in, *p*-anisaldehyde thiosemicarbazone in spectrophotometric, 9B164
- detmn. of copper in, by complexometric titration, 1B20
- by gravimetry, reagent for, 2B15
- spectrophotometric, 3B29, 3B33
- detmn. of diffusible and total hydrogen in, 8B20
- detmn. of gold in jewellery, by coulometric titration, 1B25
- detmn. of hafnium or zirconium in, by fluorimetry, 10B92

Alloys—continued

- detmn. of hydrogen, oxygen and nitrogen in, hot hollow cathode device in spectral-isotopic, 12B13
- detmn. of iron in, by spectrophotometry, 1B118
- extraction - spectrophotometric, 9B140
- salicylaldehyde thiosemicarbazone in fluorimetric, 10B137
- detmn. of nickel in, spectrophotometric, 12B152
- detmn. of nitrogen in, hot hollow cathode in, 10B93
- detmn. of palladium in, by spectrophotometry, 4B183
- detmn. of palladium in dental, extraction - spectrophotometric, 10B165
- detmn. of phosphorus, manganese and silicon in, 1B126
- detmn. of ruthenium in, by spectrophotometry with pericyazine, 5B252
- detmn. of titanium in, by spectrophotometry, 7B82
- salicylfluorone in spectrophotometric, 8B73
- detmn. of trace elements in, by emission spectrometry, device for, 3B5
- detmn. of tungsten in, by ICP a.e.s., 11B116
- by spectrophotometry, 10B127
- detmn. of vanadium in, by spectrophotometry, 5B177
- detmn. of zinc and manganese in, by polarography, 12B49
- identn. of, by portable thermoelectric and spectroscopic instruments, 10B152
- identn. of elements in, electrochemical, 12B17
- sepn. of metals in, by ion-exchange chromatography on zirconium^{IV} and titanium^{IV} arsenophosphates, 6I50
- cation exchanger for, 9J41
- sepn. of phosphorus from, radiochemical, 5B167
- surface analysis of gold - silver - copper, by X-ray photoelectron and X-ray-induced Auger electron spectroscopy, 7I93
- X-ray photoelectron spectroscopy of, review, 8B4
- Allyl isothiocyanate**, detmn. of, in mustard oil and rapeseed oil, by colorimetry, 2F45
- Almitrine**, detmn. of, in plasma, by h.p.l.c., 5D72
- Almond jelly**, detmn. of amygdalin in, by h.p.l.c., 4F54
- Almonds**, analysis of, by temp.-programmed-fractionation m.s., 12E22
- Alpha-HCH**, detmn. of, in fish oils, by g.l.c., 2F21
- Alprazolam**, detmn. of, by h.p.l.c., 3E27
- Alternariol**, detmn. of, in mouldy food, by t.l.c., 5F6
- Alternariol monomethyl ether**, detmn. of, in mouldy food, by t.l.c., 5F6
- Aluminium**, analysis of high-purity, by n.a.a., 8B46
- detection of, in bone, 9D27
- detmn. of, 3-amino-5-sulphosalicylic acid in fluorimetric, 6B67
- amperometric titrimetric, 10B54
- 5-bromo-2-(salicylideneamino)phenol in spectrophotometric, 12B55
- by a.a.s. with laser evaporation, matrix interference in, 11J88
- by complexometry, 7B15
- by α -particle-induced γ -ray emission, 5B10
- by spectrofluorimetry with picolinialdehyde 2-furoylhydrazone, 5B76
- by spectrophotometry, 10B53
- by spectrophotometry and spectrofluorimetry, 6B66
- by spectrophotometry with salicylaldehyde nicotinoylhydrazone, 5B74
- ethyl 4-cyano-5-(3,4-dihydroxyphenylazo)-3-methylthiophene-2-carboxylate in spectrophotometric, 11B42
- 2-hydroxy-1-naphthaldehyde 4-methoxybenzoylhydrazone in fluorimetric, 11B41
- in alloys, in presence of lanthanoids, by spectrophotometry or complexometry, 6B68
- in aluminium gallium arsenide, by photoluminescence spectrometry, 7B159
- in amniotic fluid, by PIXE - a.e.s., 1D23
- in antiperspirants, by n.a.a., 11C58
- in apatite - nepheline ores, by γ -activation analysis, 3B108
- in bauxite, by n.a.a., error in, 8B45
- in biological fluids, by extraction - graphite-furnace a.a.s., 10D35
- in biological tissues, by a.a.s., acid digestion method for, 6D25
- in bronze, by a.a.s., 10B37
- in brown coal, by X-ray technique, 5B274
- in calcium oxide, spectrographic, 11B32
- in catalysts, by complexometric titration, 5B285
- in cement and silicates, by a.a.s., 1J65
- in dialysis fluid and water, spectrophotometric, 10D34
- in dialysis soln., by resin concentration - ICP spectrometry, 8B11
- in electrolytes and in coatings on carbon fibres, 1B43
- in environmental materials, by colorimetry, xylenol orange in, 2B31
- in europium-doped barium magnesium aluminate, 11B170
- in explosives, by potentiometric titration, 11C79
- in ferrotitanium, by complexometric titration, 6B157
- in ferrotungsten, by indirect complexometric titration, 9A16
- in gallium arsenide, 6B184
- in germanium, natural water or blood, by laser-atomic photo-ionization, 4J128
- in glass sand and silica brick, by spectrophotometry, data reduction and calibration for, 2A17
- in haemodialysis or haemofiltration soln., by a.a.s., 5E58
- in human hair, by a.a.s., 5D25
- in iron and steel, by graphite-furnace a.a.s., 7B124
- in minerals, by ion-beam bombardment - annihilation γ -ray detection, 12J141
- in natural waters, by laser photo-ionization, 4H60
- in niobium pentachloride, by spectrophotometry, 1B94

Aluminium, detmn. of,—continued

- in ores and steel, 8-hydroxyquinoline-5-sulphonic acid and surfactant in fluorimetric, 12B54
- in petroleum pitch, by low-temperature plasma ashing - graphite-furnace a.a.s., 1C24
- in pharmaceuticals, by complexometric titration, metalochromic indicator for, 11A14
- in platinum, by spectrography, after electrolytic sepn., 2B83
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in red mud, review, 1B47
- in rocks, by n.a.a., 3B16
- in rocks and cement, by spectrophotometry, reagent for, 4B73
- in serum, by a.a.s., 1D22, 6D38
- dialysis fluid and tap-water, by graphite-furnace a.a.s., 8D24
- in serum and hair, by flameless a.a.s., 9D26
- in sheet glass, 7B151
- in silicates, by a.a.s., solubilization in, 1B155
- in slag, by XRF, 4B158
- in soil, 5G10, 9G7
- by XRF, 4J92
- colorimetric, 12G3
- in soil acidifiers and fertilizers, by a.a.s., 2G7
- in steel, by emission spectrometry, Grimm lamp in, 10B149
- by n.a.a., 3B95
- in stream water, spectrophotometric, 10H51
- in tablets for mercury - halogen lamps, 12B187
- in tears, by a.a.s., 2D15
- in tin and natural and waste waters, by luminescence, 3B47
- in tissues, by electrothermal a.a.s., 12D33
- in titanium alloys, by ICP a.e.s., 12B94
- in titanium dioxide, by a.a.s., 10B89
- in water, Chrome Azurol S and non-ionic surfactants in photometric, 12H59
- in estimation of pollution potential of oil shale, 1C25
- in water and soil, photometric, 12H58
- in zeolites, by γ -ray emission spectrometry, 3B111
- in zinc alloys, by titrimetry, 2B27
- in zinc metal and zinc-plating electrolytes, by polarography, 5B66
- morin in fluorimetric, 5B75
- Schiff bases in spectrophotometric, 10B8
- segmentation in ring-oven fluorimetric, 9J105
- spectrophotometric, 9B57
- detmn. of borides in, by electron-probe micro-analysis, 7B55
- detmn. of boron in, by ICP a.e.s., 11B40
- detmn. of carbon in primary ingot, for certification, 11B43
- detmn. of chromium, nickel, iron and beryllium in, by flameless a.a.s., 9B58
- detmn. of copper in, spectrophotometric, 3B33
- detmn. of gallium in, by spectrophotometry, 5B78
- detmn. of iron in, by anodic-stripping voltammetry, 6B71
- spectrophotometric, 3B92
- detmn. of lead in, by spectrophotometry, 6B101
- detmn. of lithium in oxide film on, by ion-scattering spectrometry, 12B58
- detmn. of metals and silicon in, by spectrography, 6B72
- detmn. of oxygen and cerium in, by n.a.a., 5B7
- detmn. of scandium in, in presence of titanium, by spectrophotometry, 5B80
- detmn. of titanium in, by spectrophotometry, 5B151
- detmn. of trace, in silicon, by a.a.s., suppression of matrix interference in, 11B72
- detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
- by ICP a.e.s., 1B46, 6B69
- detmn. of trace elements in foil, by n.a.a., 5B81
- detmn. of uranium in, by fission counting, 4B88
- identn. of corrosion products of, in presence of silicon, by electron microscopy and m.s., 9B56
- measurement of free acidity in soln. of, by standard addition method, 12B28
- sepn. of, as complex with 4-hydroxybenzoic acid, on anion exchanger, 6B23
- by flotation as phosphate complex, 12B52
- by g.l.c. of acetylacetonate chelate, 3B17
- from chromium and cobalt, as acetylacetonate, by g.c., 12B20
- from magnesium, in antacid drugs, 1E37
- from other metals, by ion exchange, 10J49
- by liquid chromatography with hydroxamic acids as stationary phases, 5J26
- surface density measurement of thin films of, by XRF, 4J93
- Aluminium-26**, detmn. of, in iron meteorites, by tandem Van de Graaff accelerator m.s., 4B154
- Aluminium alloys**, analysis of, by ICP a.e.s., 1J69
- detmn. of antimony, lead, zinc and tin in, by a.c. polarography, 1B44
- detmn. of beryllium in, by polarography, 5B83
- detmn. of calcium, lithium, sodium and strontium in, by a.e.s., 2B32
- detmn. of chromium, nickel, iron and beryllium in, by flameless a.a.s., 9B58
- detmn. of copper, nickel, zinc and silicon in, by γ -activation spectrometry, 4B47
- detmn. of copper in, by a.f.s., 6B38

Aluminium alloys, detmn. of copper in, —continued

- spectrophotometric, 9B27
 detmn. of hydrogen in lithium-containing, manometric, 10B56
 detmn. of impurities in silicon-containing, by autoradiography and γ -ray spectrometry, 5B82
 detmn. of indium in, by spectrophotometry, 5B84
 detmn. of iron in, by spectrophotometry, 1B45
 spectrophotometric, 8B113
 detmn. of lead in, by polarography, 4B114
 detmn. of nickel in, by spectrophotometry, 1B132
 detmn. of nitrogen in silicon-containing, decomposition methods for, 6B109
 detmn. of silicon in, by n.a.a., 6B70
 detmn. of titanium in, by spectrophotometry, reagent for, 4B116
 detmn. of trace elements in, by ICP a.e.s., 1B46
 detmn. of vanadium and zirconium in, by intermittent-arc spectrography, 12B57
 detmn. of yttrium, terbium and lanthanum in, by spectrophotometry, 6B68
 detmn. of zirconium in, by spectrophotometry, 7B83, 8B74
 laser micro-probe mass analysis of, in study of corrosion, 12J121
Aluminium ammonium alum, detmn. of boron in, 9B61
Aluminium chloride, detmn. of, in presence of hydrochloric acid, by potentiometry, 4B74
 detmn. of gallium in, by spectrophotometry, 5B84
 detmn. of oxygen in, by n.a.a., 3B48
 detmn. of water in melt of *N*-butylpyridinium chloride and, by voltammetry, 5B79
Aluminium gallium antimonide arsenide, analysis of solid soln. of, by X-ray spectrometry, 11B166
Aluminium gallium arsenide, analysis of, by secondary-ion m.s., matrix effect correction in, 8B139
 detmn. of aluminium in, by photoluminescence spectrometry, 7B159
Aluminium nitride, detmn. of, in steel, 4B156
Aluminium ores, detmn. of iron in, extraction - spectrophotometric, 7B122
Aluminium oxide, analysis of surface of, by head-space g.c., 11J49
 detmn. of, in aerosols, by lidar spectrometry, 10H2
 in geological samples, by cyclic n.a.a., 11B157
 in iron-ore concentrates, by XRF, 11B130
 in pptd. sodium aluminosilicates, enthalpimetric, 11B79
 in silicate reference materials, statistical comparison of spectroscopic techniques in, 11B73
 detmn. of fluoride in, by titrimetry - XRF, 1B107
 detmn. of trace elements in, bomb for dissolution in, 12B59
 detmn. of vanadium in, by solvent extraction - photometry, 12B56
Aluminium salts, detmn. of trace silicon in, spectrophotometric, 10B55
Aluminium sulphate, detmn. of lead in, spectrophotometric, 9B95
Aluminosilicates, analysis of, Japanese standard methods for, 12B84
 detmn. of alumina and silica in pptd. sodium, enthalpimetric, 11B79
Americium, detmn. of, arsenazo III in spectrophotometric, 11B67
 in biological materials, water, soil or sediment, 1H28
 in nuclear-reactor fuel, 4B92
 in soil and sediments, by non-destructive photon counting, 6G9
 in soil and tuff, by X-ray and gamma-ray spectrometry, 11G14
 in spent nuclear-reactor fuel, by isotope-dilution α - and mass spectrometry, 5B119
 in urine, isolation method for, 7D28
 extraction of, as β -diketonates, 1B63
 by 2-thenoyltrifluoroacetone - linear polyether mixture, 1B62
 dibutyl (diethylcarbamoylmethyl)phosphonate in, 11B52
 with bis-(2-ethylhexyl) phosphate, 4B98
 sepn. of, from europium, 4B99
 by extraction - chromatography, 10B76
 from iron^{III}, by extraction with tetraphenylmethylenediphosphine dioxide, 8B62
 from other metals, alkylcatechol in, 5B126
Americium-241, detmn. of, in neutron-irradiated uranium, by electro-deposition - α -particle spectrometry, 9B76
Amethocaine, detmn. of, in cocaine, by h.p.l.c., 8E12
 in pharmaceuticals, by i.r. spectrometry, 5E40
 potentiometric, electrode for, 12E43
Amethocaine hydrochloride, detmn. of, in pharmaceutical preparations, 11E32
Ametyne, detmn. of, and its metabolites, in tropical root crops, by g.c., 12G8
 in water, by g.l.c. after sorption on porous polymer, 5H83
Amezinium, detmn. of, in plasma, by h.p.l.c., 6D108
Amides, detection of, basic dyes for, 6C3
 decolorized dyes for, 6C2
 detmn. of, by derivatization - g.c., 9C5
 by g.c. with direct aq. injection, 10C2
 in alkali-damaged wool, 10C75
 of pharmaceutical interest, ammonia-sensing electrode in potentiometric, 8E50
 resolution of enantiomeric, by h.p.l.c., reversal of elution order in, 8C36
 sepn. of enantiomers of, on chiral stationary phases, 12C33
 —, **aromatic**, identn. of, in air, by derivative spectrophotometry, 1H2
 —, **hydroxymethyl**-, detmn. of stability of, as treatments for fabrics, by h.p.l.c., 12C63

- Amidines**, sepn. of *NN'*-substituted, by h.p.l.c., 3C18
Amidopyrine, detection of, in horse urine, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
 detmn. of, by computerized automated potentiometry, 2J122
 in pharmaceutical preparations, by h.p.l.c., 4E33
 by titrimetry, 4E4
Amikacin, detmn. of, in blood, by automated fluorimetry or photometry, 4J10
 in dosage forms, by spectrophotometry of dihydrolutidine derivatives, 8E36
 in plasma, by EMIT, r.i.a. or microbiological assay, 11D57
 in presence of Fluosol-DA, by r.i.a., 1D6
 in serum, by automated h.p.l.c., 9D50
 by fluoro-immunoassay, 1D39
 by h.p.l.c., 12D70
 by h.p.l.c. of 2,4-dinitrophenyl derivative, 4D81
Amiloride hydrochloride, detmn. of, in presence of hydrochlorothiazide, by spectrophotometry, 1E36
Aminacrine, detmn. of, in creams, jellies and suppositories, spectrophotometric, 8E78
 in pharmaceutical preparations, by spectrofluorimetry and t.l.c., 8E79
Amine oxidase (copper-containing), assay of, 3-(4-hydroxyphenyl)propionic acid in fluorimetric, 11D238
Amine oxidase (flavin-containing), assay of, 3-(4-hydroxyphenyl)propionic acid in fluorimetric, 11D238
 in blood platelets and rat-brain mitochondria, spectrophotometric, 8D236
 in tissues, spectrophotometric, 11D236
 assay of A and B enzymes of, by h.p.l.c., 7D238
Amineptine, detmn. of, and its main metabolite, in plasma, by h.p.l.c., 11D79
Amines, detection of, basic dyes for, 6C3
 decolorized dyes for, 6C2
 in air at hazardous-waste sites, sampler for, 5H6
 in brain, by h.p.l.c. or micro-electrodes, review, 5D172
 detection of metabolites of biogenic, by h.p.l.c., dual electrochemical detectors for, 4J39
 detmn. of, by g.l.c., 2D159, 5C28
 by h.p.l.c., derivatization for, 7C38
 fluorogenic reagents for detection in, review, 10D15
 by h.p.l.c. with post-column reaction detection, 1C8
 by reaction with phthalaldehyde - 3-mercaptopropanol, 8D160
 in bacterial cultures, by g.c., 7D154
 in biological tissues, by ion-pair chromatography, 5D163
 in dyes and pigments, for ecological and toxicological assessment, review, 11H2
 in food, review, 8F1
 in foods, by h.p.l.c., 2F6, 7F14
 in must and wine, derivatization - fluorimetric, 8F60
 in pharmaceutical preparations, potentiometric, 2E1
 in wine, by h.p.l.c., 5F52
 spot test and colorimetric, 7C8
 detmn. of biogenic, by h.p.l.c. with electrochemical detection, 12D146
 in brain, by h.p.l.c., 8D147
 in meat, by ion exchange and capillary g.c., 9F21
 in minced beef, by cation-exchange chromatography, 9F24
 detmn. of chiral, in biological materials, by t.l.c. and h.p.l.c., reagent for, 12D83
 detmn. of primary, trinitrobenzenesulphonic acid in spectrophotometric, 2D178
 detmn. of secondary, by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
 extraction of biogenic, from meat and meat products, by ion-exchange chromatography, solvents for, 9F22
 g.l.c. of, with polyoxyethylene glycol liquid phases, interaction of chloroform with, 6E47
 identn. of enantiomers of, by g.c. - m.s., 7E25
 sampling of, in air, Chromosorb 103 as adsorbent for, 10H35
 sepn. of, by g.c., 1C9
 by g.s.c., stationary phases for, 9J57
 by h.p.l.c., effect of crown ether-containing mobile phases on, 7J28
 in marine fish, chromatographic, 9D155
 sepn. of enantiomers of, by g.l.c., 5C19
 sepn. of tertiary, by paper chromatography, 8G10
 t.l.c. of, 5J47
 —, **aliphatic**, detmn. of, by indirect polarography, 8C20
 by t.l.c. of 3-alkyl-2,2-diphenyl-1-oxa-3-azonia-2-boratanaphthalene derivatives, 10C24
 crown ether derivative in spectrophotometric, 12C20
 fluorimetric, 3C19
 recommended methods for, 10C4
 detmn. of trace, in air, by g.l.c., 6H33
 —, **alkyl**-, sepn. of derivatives of, by t.l.c. with laser-fluorimetric detection, 5C29
 —, **aromatic**, detection of, in sediments, 3H64
 detmn. of, by g.c. - e.c.d. of perfluoro-fatty acid amides, 3C31
 by g.l.c., 5C49
 by h.p.l.c., 3C29
 by reduction of ferricyanide, enzyme electrode for, 2C31

Amines, aromatic, detmn. of,—*continued*

- H-acid or *N*-1-naphthylethylenediamine in spectrophotometric, 11C23
 metol - iodine in spectrophotometric, 11C22
 recommended methods for, 10C4
 spectrophotometric, 9C31
 identn. of polycyclic, by g.c. - e.c.d., 3C36
 sepn. of, by h.p.l.c., influence of buffer cation in, 7C39
 simplex optimization of ternary mobile phase in, 10J30
- Amine salts**, detmn. of, in pharmaceutical preparations, potentiometric, 2E1
- Amino-acid acetyltransferase**, assay of, 11D243
- Amino-acid esters**, sepn. of *N*-, *O*- or *S*-acyl derivatives of, by g.l.c., effect of stationary phase on, 4D218
- Amino-acids**, analysis of, by secondary-ion m.s., 11J115
 detection of, as fluorecamine derivatives, by isotachopheresis, 9J48
 by liquid chromatography - m.s., interface for, 7J71
 detmn. of, by anion-exchange chromatography with amperometric detection, 4D220
 by derivatization and h.p.l.c., 8D165
 by fluorimetry, 3D145
 by h.p.l.c., 9D179
 fluorogenic reagents for detection in, review, 10D15
 post-column derivatization in, 2D175
 post-column reagents for detection in, 3D142
 with automated pre-column derivatization and injection, 5D177
 by h.p.l.c. - ICP a.e.s., 6D210
 by h.p.l.c. of dansyl derivatives, 2D7
 by h.p.l.c. of *N*-fluoren-9-ylmethoxycarbonyl derivatives of, 7D171
 by h.p.l.c. of phenylthiocarbamoyl derivatives, 9D172
 by h.p.l.c. with post-column reaction detection, 1C8
 by immobilized-enzyme oxidation and chemiluminescence, 7D168
 by ion-exchange chromatography with post-column derivatization, 4D214
 by polarography of 2,4,6-trinitrophenyl derivatives, 9D178
 by reaction with phthalaldehyde - 3-mercaptopropanol, 8D160
 by ring - disc electrochemical titration with bromine or hypobromite, 11D191
 by spectrophotometry, computerized on-line data acquisition for, 2D173
 program for peak detection and integration in, 2D174
 by spectrophotometry with ninhydrin, Simplex optimization of, 4A15
 in biological fluids, by h.p.l.c., on-line pre-column derivatization with phthalaldehyde in, 4D216
 in biological materials, by h.p.l.c. of phthalaldehyde derivatives, 6D215
 in biological tissues, by ion-pair chromatography, 5D163
 in brain tissue, by column chromatography - fluorimetry, 9D186
 in cereal proteins, by h.p.l.c. after derivatization with phthalaldehyde, 5G5
 in chymotrypsin hydrolysate, by h.p.l.c., 10D168
 in food proteins, 1F1
 in plasma or dried blood, automated, 7D167
 in sea-water, by fluorimetry, 5H79
 by h.p.l.c., 3H62
 review, 2H54
 in sediments and interstitial water, by g.c. after ninhydrin - carbon dioxide reaction, 7H65
 in serum, by g.l.c., 6D211
 in soil, colorimetric, 12G3
 in sugar, by g.l.c., 6F23
 interference in, 9D173
 in urine, removal of ammonia before, 12D173
 in venom gland of scorpion, by paper chromatography, 6D213
 in wine, must and wine vinegar, by h.p.l.c., 10F64
 partial reduction of ninhydrin reagent for automated, 8D164
 potentiometric, 8D161
 recommended methods for, 10C4
 detmn. of chemically modified, in silk and wool treated with 1-chloro-2,3-epoxypropane, glycidol and glycidyl methacrylate, by g.c. - m.s., 11C70
 detmn. of cysteine in mixtures of, by colorimetry, 1D142
 detmn. of dimethylaminoazobenzeneethiohydantoin derivatives of, by h.p.l.c., 11D169
 detmn. of enantiomers of, by h.p.l.c., 4D215
 in saliva, by g.l.c. on Chiral-Val, 12D166
 detmn. of free, in avian serum, by h.p.l.c. and ion-exchange chromatography, 9D181
 in baby food, by titrimetry, 4F7
 detmn. of *N*-methyl derivatives of, by h.p.l.c., 8D159
 detmn. of nitrogen in, by Kjeldahl digestion, indophenol blue reaction in, 1D26
 detmn. of *N*-terminal, in peptides, by h.p.l.c. of dansyl derivatives, 10D176
 detmn. of oxazolidinones of, by g.l.c. with e.c.d., 9D174
 detmn. of sequence of, in proteins, automatic analysers for, 6D239
 detmn. of toxic non-protein, in plants, review, 11D112
 detmn. of trace, in natural waters, by h.p.l.c. - fluorimetry, 7H66
 detmn. of *N*-trinitrophenyl-derivatives of, by h.p.l.c., 6D217
 extraction of, as dansyl derivatives, optimization of, 8D162

Amino-acids—continued

- identn. of, in heart, by g.l.c., 2D172
 in urine, for detection of aspartylglucosaminuria and fucosidosis, 5D175
 identn. of spectrally similar phenylthiohydantoin derivatives of, 12D165
 sepn. of, as dansyl derivatives, by paper chromatography, 5D178
 as dinitrophenyl derivatives, by counter-current chromatography, 9D180, 9J11
 as phenylthiohydantoin derivatives, by h.p.l.c., 3D141, 9D182, 10D166
 by anion chromatography, 1J38
 by g.c., stationary phase for, 1D138
 by gel filtration, 1D80
 by glass-fibre paper chromatography, 6D214
 by h.p.l.c., 6D216
 effect of hydrophobic mobile-phase additives in, 8D163
 by h.p.l.c. as dansyl derivatives, 5D179
 by h.p.l.c. as phenylthiohydantoin derivatives, 5D180
 by h.p.l.c. of dansyl amide derivatives, 3D144
 by h.p.l.c. on [copper(hydroxypropyl)alkyl]silica, 3D140
 by liquid chromatography, cyclodextrin phases for, 5C3
 by micro-column h.p.l.c., 9J16
 by t.l.c., adsorbents for, 4D219
 in biological fluids, by h.p.l.c. of phthalaldehyde derivatives, 3D143
 stereoselective, by complexation - h.p.l.c., 12D163
 sepn. of acidic, in mouse brain, by ion-exchange chromatography and t.l.c., 7D173
 sepn. of aromatic, by reversed-phase h.p.l.c., 6C24
 sepn. of chiral, by h.p.l.c. as copper complexes, review, 8B2
 sepn. of cross-linking, from elastin, by t.l.c., 9D175
 sepn. of dansyl derivatives of, from other products of dansylation, by h.p.l.c., 11D170
 sepn. of dinitrophenyl derivatives of, by t.l.c., computerized optimization of, 1J43
 sepn. of enantiomers of, as dansyl derivatives, bonded phases for, 7D170
 by g.c., stationary phases for, 3D139
 by g.l.c., 6D212
 by h.p.l.c., 3D146, 7D169
 by h.p.l.c. on urea derivatives of *L*-valine bonded to silica gel, 10D164
 by reversed-phase t.l.c., 9D176
 selective transport with crown ethers in, 12D168
 sepn. of enantiomers of *N*-aroyl, by h.p.l.c., 1D139
 sepn. of racemates of, by ligand-exchange chromatography, 4J25
 t.l.c. of, 5J47
- , *N*-methyl-, detmn. of, by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
 sepn. of enantiomers of, by g.l.c., 6D212
- Aminobutyrate aminotransferase**, assay of, by extraction - colorimetry of succinaldehydic acid 2,4-dinitrophenylhydrazone, 8D244
- Aminocarb**, detmn. of, in water, with its degradation products, by g.c. after extraction, 6H89
- Aminogluthethimide**, detmn. of, in plasma, by h.p.l.c., 1D66
 saliva and urine, by g.l.c., 12D97
- Aminoglycoside antibiotics**, detmn. of, in serum, by fluoro-immunoassay, 1D39
- Amino-groups**, detmn. of, in amine-modified silica, by spectrophotometry, ninhydrin in, 2B52
- Aminohippuric acid**, detmn. of, in biological fluids, by h.p.l.c., 11D105
- α -Amino-nitrogen**, detmn. of, in serum and urine, by spectrophotometry, proposed Pharmacopoeial method for, 4D217
- Amino-peptidase (cytosol)**, assay of, by phosphorimetry, 6D316
 in serum, electrode for, 2D34
 membrane electrode for, 2D233
- Amino-peptidase (microsomal)**, assay of, in rat urine, pre-treatment for, 6D303
 in urine, stability-indicating, 3D246
- Aminophylline**, detmn. of, in pharmaceutical preparations, by n.m.r., 3E8
- Amino-sugars**, detmn. of, by g.c., derivatization catalyst for, 12D111
 by h.p.l.c., 5C20
 sepn. of, from rat liver, by h.p.l.c., 4D284
- Amiodarone**, detmn. of, in pharmaceuticals or biological fluids, by reversed-phase ion-pair h.p.l.c., 10E35
 in plasma, by h.p.l.c., 6D111
 in tissues, by h.p.l.c., 12D91
 with its *N*-de-ethylated metabolite, in serum, by h.p.l.c., 6D109
- , *de*-ethyl-, detmn. of, in tissues, by h.p.l.c., 12D91
- Amisriptyline**, detmn. of, and its 10-hydroxy-metabolite, in plasma, by g.c., 7D68
 by liquid chromatography, 6E40
 in biological material, by g.l.c., 4D106
 in dosage forms, by spectrophotometry as picric acid complexes, 1E26
 in pharmaceutical preparations, by h.p.l.c., inter-laboratory assessment of, 4E46
 in plasma, by h.p.l.c., 2D81, 7D69, 8D57, 10D93
 in serum, by h.p.l.c., 4D107
 "Toxi-Tube" extraction procedure for, 8D56
 in serum or plasma, by g.l.c., 6D100

- Amitriptyline**, detmn. of, —continued
 in tablets, by g.l.c., 11E27
 by ion-pair h.p.l.c., 8E63
 with its metabolites, in serum, by g.c. - m.s., 8D55
- Amitriptyline hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
 in pharmaceutical preparations, 2E31
 in tablets, gravimetric, volumetric and colorimetric, 12E41
- Amitriptyline maleate**, detmn. of, by g.l.c., 11E28
- Amni visnaga**, detmn. of khellin in fruit of, by h.p.l.c., 9E14
- Ammonia**, detection of, bilayer lipid membrane in sensor for, 6J179
 electrodes for, 7J128
 in air at hazardous-waste sites, sampler for, 5H6
 pyridoxine hydrochloride in piezoelectric, 7B84
 detection of trace, in nitrogen, with piezoelectric crystal, validity of Sauerbrey equation in, 11B89
 detmn. of, by flow-injection analysis, gas-permeation sepn. in, 7J10
 by potentiometric sensors comprising PTFE membranes, 5J175
 chemical - fibre optic sensors in, review, 9J68
 in Able-foam, by ion chromatography, 7J46
 in air, by ion chromatography, 1H14
 by tungsten^{VI} oxide technique, automated, 3H9
 colorimetric, 4H24
 optical waveguide sensor for, 3H12
 in brine, reflectometric, 9D30
 in brine, ion-selective electrode in, 12B102
 in copper pyrophosphate plating soln., by cyclic voltammetry, 8B30
 in estuarine waters, indophenol blue in automated, 9H53
 in exhaust gas, platinum catalyst in, 5H23
 in fertilizers and waste water, ion-selective electrode in, 1G6
 in malt and wort, without distillation, 12F32
 in natural waters, by spectrophotometry, automation of, 5H64
 in river water, monitoring and telemetry system for, 10H40
 in ruminal fluid, electrode for, 12D40
 in seafood, enzymic - spectrophotometric, 9F28
 in serum, electrode for, 2D34
 kinetic enzymic, 4D46
 in silage, gas-sensitive electrode, 6G19
 in water, fluorimetric, 7H42
 microbial sensors in, review, 5D4
 reconditioning of ion-selective electrodes for, 9J125
 with gas-sensing electrodes, osmolality effects in, 12J161
 detmn. of trace water in, by acetylene generation - g.c., 12B107
 extraction of, from meat, 1F8
 monitoring of, in air, personal sampler for, 1H12
- Ammonia-nitrogen**, detmn. of, in potassium chloride extracts of soils, colorimetric, 8G5
- Ammonium bromate**, detmn. of chloride in, study of Swiss Pharmacopoeia methods for, 1E23
- Ammonium chloride**, detmn. of silicon in, by spectrophotometry, 8B78
 detmn. of zinc oxide and boric acid in zinc-plating electrolytes based on, 1B37
- Ammonium compounds, quaternary**, detmn. of, by potentiometric titrimetry, 7C26
 by potentiometry with ion-selective electrodes, 5C84
 in anion-exchange resin intermediates, by titrimetry, 4C96
 recommended methods for, 10C4
 detmn. of biogenic, by demethylation - g.c., 8D158
 h.p.l.c. of, cation-exchange contribution to retention in reversed-phase, 8C35
 factors affecting retention in reversed-phase, 8E73
 measurement of extraction constants and degree of hydration of, in liquid - liquid systems, 5C31
- , —, **chloride**, **trialkylbenzyl-**, detmn. of α -chlorotoluene in, by potentiometric titrimetry, 1C16
- , —, **(ethoxycarbonylpentadecyl)trimethyl-**, detmn. of, in natural waters, by radiometry, iodine-131-labelled Rose Bengal in, 4C67
- , —, **(methacryloyloxyethyl)trimethyl-, methyl sulphate**, detmn. of, in acrylamide - (methacryloyloxyethyl)trimethylammonium methyl sulphate copolymers, by i.r. spectrometry, 1C38
- , —, **tetramethyl-**, detmn. of, in shellfish, by ion chromatography, 8F34
- , —, —, **tetraphenylborate**, elementary analysis of, as analytical standard, 9A15
- , —, **trialkyl-, chloride**, extraction of, 2B2
- , **trimethyl-**, m.s. of choline- and carnitine-related, 7D166
- Ammonium ion**, detmn. of, as impurities in peptides, by capillary isotachopheresis, 11D180
 by Berthelot reaction, review, 12B101
 by potentiometric electrodes for, 9J126
 in fertilizers and waste water, ion-selective electrode in, 1G6
 in food and biological and environmental materials, by a.a.s., 1B82
 in snow and ice, by ion chromatography, 8H43
 in soil, manual colorimetric, 5G14
 salicylate in spectrophotometric, 6G12
 in soil and plant material, by Kjeldahl analysis, 5G13
 in urine, by h.p.l.c., 11D24
 in water, by h.p.l.c. - fluorimetry, 12H67
 by ion chromatography, 6B37
 by spectrophotometry, 2H45
 molten-salt voltammetric, 10B94
- Ammonium ion**, detmn. of, —continued
 solid ion-selective electrode for, 11J131
 solid-state electrode for, 9J133
 with ion-selective electrodes, 5J170
- Ammonium octahydrotriborates**, detmn. of, by acidic titrimetry, 7B53
- Ammonium per-rhenate**, detmn. of tungsten in, by spectrophotometry, 10B127
- Ammonium sulphate**, detmn. of nitrogen in, by Kjeldahl digestion, indophenol blue reaction in, 1D26
- Ammonium tetrahydroborates**, detmn. of, by acidic titrimetry, 7B53
- Ammonium thiocyanate**, detmn. of, in presence of thiourea, 11B70
- Amniotic fluid**, assay of acetylcholinesterase in, 1D223
 by centrifugal analyser, 4D323
 by immunoassay, 1D222
 detmn. of bilirubin and oxyhaemoglobin in, by spectrophotometry, 4D271
 detmn. of bilirubin in, spectrophotometric, effect of glucocorticoids on, 12D199
 detmn. of dipalmitoylphosphatidylcholine in, by m.s., 1D106
 detmn. of lecithin and sphingomyelin in, by enzymic colorimetry, 2D147
 detmn. of lecithin - sphingomyelin ratio in, effect of blood contamination on, 10D137
 detmn. of metals in, by PIXE - a.e.s., 1D23
 detmn. of phosphatidylcholines and phosphatidylglycerol in, enzymic, 10D139
 detmn. of phosphatidylcholines in, by t.l.c., 6D179
 detmn. of phosphatidylglycerol in, by t.l.c., interference in, 12D134
 enzymic colorimetric, 12D133
 detmn. of phospholipids in, by h.p.l.c., 4D172
 detmn. of prealbumin in, by r.i.a., 6D250
 detmn. of steroids in, by g.l.c. and g.l.c. - m.s., 6D184
 detmn. of zinc in, by n.a.a., 1D21
 extraction of phospholipids from, 9D134
- Amodiaquine**, detmn. of, gravimetric, 12E58
 in presence of primaquine, in pharmaceutical preparations, by spectrophotometry, 7E39
- Amoxapine**, detmn. of, in blood and tissues, by g.l.c., 3D56
 in plasma, by h.p.l.c., 2D81
 in serum, by h.p.l.c., 4D108, 4D109
- , **8-hydroxy-**, detmn. of, in serum, by h.p.l.c., 4D108, 4D109
- Amoxycillin**, detmn. of, by flow-injection analysis or h.p.l.c., electrochemical detector for, 12J40
 copper^{II} in spectrophotometric, 9E20
 in blood plasma, by h.p.l.c., 4D80
 in pharmaceutical preparations, colorimetric, 2E19
 in plasma, by h.p.l.c., 11D50
 in tablets, blood and urine, 8E30
 spectrophotometric, 8E28
- Ampelites**, detmn. of titanium in, by a.a.s., 5B155
- Amprometry**, combined with spectrophotometry, computer control of, 3A18
 detectors for, lead dioxide electrode in, 1J117
 microbe-based sensors for, review, 1J101
- Amphetamine**, detmn. of, after phthalaldehyde - thiol derivatization, by h.p.l.c., 7E29
 in finger- and toe-nails, by g.c. - m.s., 6D102
 in urine, by g.c., 3D61
 by g.l.c., 8D58
 by head-space g.c., 7D72
 by h.p.l.c., 12D81
 extraction of, from urine, Sep-Pak C₁₈ in, 4D110
 identn. of synthesis-specific impurities in, by g.l.c. - m.s., 9E39
 sepn. of, in blood and urine, by column chromatography, 5D70
- , **4-hydroxy-**, detmn. of, in brain, by h.p.l.c., 11D80
 in urine, by g.c., 3D61
- Amphetamine derivatives**, detmn. of, by r.i.a., preparation of radioligands for, 5D75
- Amphibolites**, detmn. of titanium in, by a.a.s., 5B155
- Amphotericin**, detmn. of, direct spectrophotometric, 9E24
 in serum or plasma, by h.p.l.c., 7D53
- Ampicillin**, detmn. of, in beef, kidney and liver, *Bacillus stearothermophilus* in microbiological, 8F26
 in blood and plasma, by spectrophotometry, 3D39
 in blood plasma, by h.p.l.c., 4D80
 in pharmaceutical preparations, by polarimetry, 6E25
 in serum, by h.p.l.c., 9D46
 in urine, by t.l.c., 6D62
- Amygdalin**, detmn. of, enzyme electrode for, 11D122
 in apricot products, by h.p.l.c., 4F54
 in seeds of Rosaceae, by gas-phase molecular spectrometry, 10E18
 sepn. of, from its epimer and hydrolysis products, by h.p.l.c., 9E18
- Amylase**, assay of, in honey, in monitoring adulteration by sugar, 1D2, 5F13
 in serum, automated, 9D265
 automated analyser for, 9D10
 by centrifugal analyser, kinetic, 2D236
 enzymic - colorimetric, 1D221
 in urine, serum or saliva, centrifugal analyser in, 1D225
 assay of isoenzymes of, anomalies in inhibitor method for, 9D262

Amylase—continued

detection of, by isoelectric focusing or electrophoresis, visualization method for, 9D245

 α -Amylase, assay of, by continuous stirred-tube reaction, 4D328

by ELISA, 8D251

by radial diffusion, 1D219

in cereals, by nephelometry, 4G6

in dough and bread, nephelometric, 6F31

in *Aspergillus oryzae* fermentation broth, by flow-injection analysis, 12D234

in plants, 4D330

in presence of glucose, with bi-enzyme electrode, 3D258

in serum, by fluorimetry, substrate for, 5D253

4-nitrophenyl glucosides as substrates for, 1D212

standards for, 5D237

assay of fungal, on cereals, by spectrophotometry, 6G5

assay of isoenzymes of, in serum, pancreas and saliva, by electrophoresis, 10D255

assay of pancreatic and salivary, of serum, fluorimetric, 11D248

detmn. of inactivator of, in fermentation liquor, by continuous-flow spectrophotometry, 10D258

 β -Amylase, assay of, in cereals, Pantrak E. K. reagent in spectrophotometric, 6G5**Amylobarbitone**, detmn. of, in plasma, by g.l.c., 3D45

in serum, by EMIT, 6D75

Amylopectin, detmn. of, in plants, by pptn. - filtration, 4D151**Amylose**, detmn. of, in plants, by pptn. - filtration, 4D151

in starch, by colorimetry, 4F19

Anabasine, detmn. of, in tablets, by paper chromatography, 6E14**Anaesthetics**, detmn. of felypressin in local, by voltammetry, 8E42

extraction of local, from biological fluids, by adsorption on C_{18} silica gel, 10D97

Analgesics, detmn. of, and their metabolites, in urine, by g.c. - m.s., 11D39

by counter-ion ion-exchange partition chromatography, 6E66

in biological fluids, by h.p.l.c., 6D89

in serum and urine, by h.p.l.c. with electrochemical detection, 5D65

Analytical chemistry, 1A12B

application of synergic extraction in, 2J3

chemometrics in, review, 9A21

chemometrics in micro-scale, 7A11

choice of procedure in, 5A22

computer systems for, 1A1

development and progress of control in, 5A2

in Germany, review, 7A3

interpretation of data by cluster analysis, 7A26B

in USSR, review, 7A2

kinetic spectrometry in, 4J86

methods in, 12A2

review, 12A3

principles and practice of, 5A44B

review, 4A2

robots in, 1J14

theory and practice of, 4A33B

trends in, 7A25B

Analytical standards, aerosols as, device for continuous preparation of, 5J15

air pollutants as, apparatus for preparation of, 5J7

alkaline phosphatase as, 8A9

analysis of, by photon activation, for homogeneity control, 11A11

calcium carbonate as, for a.e.s. analysis of bone, 1A6

certification methods for, 6A2

detmn. of elements in, by n.a.a., 10A8

detmn. of trace elements in, by n.a.a., 9A13

enzymes as, 5D237

estimation of non-uniformity of, by tolerance limits, 9A9

ferrocene as, 2A8

for analysis of potassium chloride and potassium sulphate fertilizers, 5G20

for carbon in steel, absolute calibration of, 11B139

for detmn. of dibenzothiophene in crude oil, 8C51

for detmn. of ethanol in blood, 7D99

for detmn. of trace metals in sea-water, 4A9

for geochemical analysis, review, 6A4

for high-density lipoprotein, detmn. of cholesterol and triglycerides in, 8D210

for liquid scintillation counting, sealed, 3J99

for manganese, rhodochrosite as, 7A7

for n.a.a., 6A3

for nuclear reaction analysis, 12J144

for rocks and sludges, confidence limits of data for, 1A5

for spectrographic analysis of ferrous alloys, 10B148

for spectroscopic analysis, evaluation of uniformity of solid, 8A6

for sulphur in gas oils, 11C42

for trace analysis, review, 7A6

for trace-gas analysis, permeation device for prep. of, 4J3

for X-ray diffraction and XRF analysis, 2A7

gases as, apparatus for preparation of, 9J3

gas mixtures as, review, 7J3

glycoalkaloids as, for t.l.c. of potatoes, 7G9

Analytical standards—continued

human liver as, detmn. of trace metals and organochlorine compounds in, 6D17

in analysis of coal by XRF, 8B130

ionic, preparation of stoichiometric, 5A20

ion-implanted bismuth-in-silicon as, calibration of, 12A6

isotopes as, for calibration of β -particle surface-contamination monitors, 5A18

manganese ore as, 8A8

minerals as, for laser micro-spectrography, 5B229

multi-element, for n.a.a. of biological materials, 12D16

PAH as, 5A19

phenol soln. as, 10H79

phosphate rock as, 4A8, 5A16

plutonium metal as, 2A6

polycyclic aromatic compounds as, review, 11A12

potassium hydrogen 3,5-dinitrobenzoate as, for alkalimetry, 10A7

serum as, 8D4

reagents for de-lipidation of, 10D7

steel containing austenite as, 5A14

tetramethylammonium tetraphenylborate as, elementary analysis of, 9A15

titanium and titanium - aluminium - vanadium alloys as, certification of, 12B97

uranium as, 5A15

uranium ore as, 8A7

volatile organic substances in air as, prep. of, 12J2

Anaphylatoxins, detmn. of, in serum, by r.i.a., 9D208

Androgens, detmn. of, in admixture with the corresponding 4-ene steroid, by dual-wavelength u.v. spectrophotometry, 9D138

in blood serum, by h.p.l.c., 4D186

in urine and blood plasma, enzymic, 4D192

sepn. of, by h.p.l.c., 8D134

by h.p.l.c. on phenyl-derivatized silica gel, 7D140

from lipid matrices, by extraction - micro-column chromatography, 5D151

sepn. of acetate derivatives of, by h.p.l.c., 7D146

Androsta-1,4-dien-3-one, 17 β -hydroxy-, detmn. of, in urine, by m.s., 1D46

Androstane derivatives, sepn. of, by h.p.l.c., 9D53

5 α -Androstane-3 α ,17 β -diol, detmn. of, in blood serum, by h.p.l.c. - r.i.a., 4D191

5 α -Androstane-3 β ,17 β -diol, detmn. of, in blood serum, by h.p.l.c. - r.i.a., 4D191

5 α -Androstan-17-one, 3 α -hydroxy-1-methylene-, detmn. of, in urine, by isotope-dilution m.s., 4D85

Androstene derivatives, 17-(pyridylmethyl)-, detmn. of, by volumetric or coulometric titration with potentiometric indication at small constant current, 10D149

—, 17-(pyridylmethylene)-, detmn. of, by volumetric or coulometric titration with potentiometric indication at small constant current, 10D149

Androstenedione, detmn. of, in blood serum, by h.p.l.c. - r.i.a., 4D191

in serum, by r.i.a., 11D152

in urine, by t.l.c., 6D192

sepn. of, from lipid matrices, by extraction - micro-column chromatography, 5D151

from other steroids of blood plasma, by h.p.l.c., 4D179

Androstenedione derivatives, sepn. of, by h.p.l.c., 7D146

Androst-5-en-17-one, 3 β -hydroxy-, sulphate, detmn. of, in serum, by h.p.l.c., 12D138

in urine and blood plasma, enzymic, 4D192

Androsterone, detmn. of, in blood serum, by h.p.l.c. - r.i.a., 4D191

Anethole, analysis of natural and synthetic, isotopic, 10F18

Anethole derivatives, identn. of, in essential oils, by m.s., 5C89

in foods, by natural-abundance deuterium n.m.r., 7F78

Anethole trithione, detmn. of metabolites of, in urine, by h.p.l.c., 2D112

Angelica dahurica, detmn. of total coumarins in roots of, by polarography, 8E24

Angelica root, detmn. of pentosalen in, by t.l.c. - spectrophotometry, 5E21

Angiotensin I, assay of, in plasma, effect of pre-incubation on, 6D311

Angiotensin II, assay of, in plasma, program for immunoassay data processing in, 4A29

detmn. of, by r.i.a., review, 7D182

Angiotensins, sepn. of, by h.p.l.c. on "end-capped" octylsilica, 7D180

Anilazine, detmn. of, by phosphorimetry, 5G32

Aniline, detmn. of, by flow-injection analysis - voltammetry, 2C28

in arsanilic acid and sodium arsanilate, by h.p.l.c., 4G24

in edible oils, by spectrophotometry, 6F78

in nitrobenzene, cyclic voltammetric, 11C24

in products of cyclohexylamine production, by g.c., 9C30

in waste water, by derivative spectrophotometry, 1H2

by g.l.c., 5H94

iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17

h.p.l.c. of, effect of ionic surfactants on, 5C4

sepn. of benzooylation products of, by h.p.l.c., 11C21

—, N-benzyl-, g.l.c. of, with polyoxyethylene glycol liquid phases, interaction of chloroform with, 6E47

Aniline—continued

- , **4-chloro-**, detmn. of, in chlorhexidine gluconate, by spectrophotometry, 4E54
- t.l.c. of, structure in relation to, 2E26
- , **NN-dimethyl-4-nitro-**, detection of, by pre-resonance Raman spectrometry, 9C33
- , **dinitro-**, detmn. of, coupling agent for spectrophotometric, 3C32
- , **2,4-dinitro-**, detection of traces of, spot test for, 6C28
- , **N-methyl-4-nitro-**, detection of, by pre-resonance Raman spectrometry, 9C33
- , **4-nitro-**, detection of, by pre-resonance Raman spectrometry, 9C33
- detmn. of, in waters, by spectrophotometry, nitrite and 1-naphthol in, 4H77
- lead electrodes in voltammetric, 11J140
- , **2,4,5,6-tetrachloro-**, detmn. of, coupling agent for spectrophotometric, 3C32
- , **trichloro-**, detmn. of, coupling agent for spectrophotometric, 3C32
- Aniline derivatives**, detmn. of, in waste water, by g.l.c., 5H94
- detmn. of 2,6-disubstituted, in blood, by g.l.c., 3D84
- sepn. of, by g.s.c., stationary phases for, 9J57
- , **chloro-**, sepn. of, by t.l.c., pre-coated plates for, 3J44
- , **nitro-**, sepn. of, by capillary h.p.l.c., 8C26
- Anions**, detection of, by h.p.l.c., ion-selective electrodes in, 4J33
- by ion chromatography, aq. sodium methanesulphonate as eluent for, 3B3
- with u.v. detection, 9B1
- detmn. of, in biological tissues, by secondary-ion m.s., 5D12
- in natural waters, by ion chromatography, 4H50
- in precipitation water, by ion chromatography, 12H42
- detmn. of bulky, C. I. Azoic Diazo Component 35 in spectrophotometric, 1B110
- detmn. of inorganic, liquid-chromatographic, review, 11B2
- detmn. of organic, as impurities in peptides, by capillary isotachophoresis, 11D180
- detmn. of organometallic, by m.s., review, 6C5
- extraction of, by ion exchange or ion-pair formation, 5C2
- identn. of, in metal compounds, by a.a.s., 5B20
- sepn. of, by ion chromatography, tetra-alkylammonium hydroxides as ion-pair reagents in, 12B4
- from water, with cationic surfactants, 6H44
- in river water, by anion chromatography, 1J38
- sepn. of inorganic, by reversed-phase h.p.l.c., 10B4
- by suppressed-ion chromatography, 11B12
- m-Anisidide, 4'-(9-acridinylamino)methanesulphon-**, detmn. of, in blood plasma, by h.p.l.c., 4D129
- Anisole**, detmn. of, by supercritical-fluid chromatography with FT i.r. detection, 5J28
- , **methyl-**, sepn. of isomers of, by g.l.c., liquid-crystal stationary phases for, 8J58
- Annona cherimolia**, analysis of flavour components of, by g.c. - FT i.r., 6F56
- Anserine**, detmn. of, in muscle tissue, by spectrophotometry, 4D234
- Antazoline hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- Antelope meat**, measurement of degree of oxidation of lipids in, by thiobarbituric acid methods, 7F39
- Anthelmintics**, identn. of, X-ray powder diffraction data for, 8E84
- Anthocyanins**, detmn. of, in *Vaccinium myrtillus* extract, by g.l.c. and h.p.l.c., 6E19
- sepn. of, from blackcurrants and raspberries, by droplet counter-current chromatography, 9D221
- , **leuco-**, detmn. of, in must and wine, adsorption - spectrophotometric, 12F37
- Anthracene**, detection of, by resonance Raman spectrometry, 12C35
- by synchronous fluorescence, silicon-intensified target vidicon in, 3J82
- detmn. of, in air, by laser-induced molecular fluorescence spectrometry, 2H27
- in dibenzofuran, by synchronous fluorescence spectrometry, 5C56
- in river water, by t.l.c. with pre-concentration, 10H83
- in soln., by laser photo-ionization, 5C53
- in vegetable oils, by t.l.c., 10F71
- detmn. of carbazole in, by synchronous fluorescence, 8C43
- extraction of, from sediments, efficiency of, 2H59
- sepn. of, by h.p.l.c., 5C1
- by h.p.l.c. with two-photon ionization detector, 9J31
- , **9-bromo-**, sepn. of, by h.p.l.c. with two-photon ionization detector, 9J31
- , **9,10-diphenyl-**, detection of, by synchronous fluorescence, silicon-intensified target vidicon in, 3J82
- , **9-methyl-**, detmn. of, by h.p.l.c., fluorescence detector for, 12J37
- Anthracene-9-carboxylic acid**, detmn. of, in perfusion soln., blood or urine, 5D108
- Anthracene derivatives**, detection of, by resonance Raman spectrometry, 12C35
- , **amino-**, detection of isomers of, by g.l.c. - e.c.d. and g.l.c. - m.s., 8C44
- , **chloro-**, detmn. of, in soln., by laser photo-ionization, 5C53
- Anthracene oil**, analysis of, by g.c., 4C62, 4C63
- sepn. of classes of nitrogen compounds in, by liquid chromatography, 8C63
- Anthracenes**, detmn. of hydrogenated, by h.p.l.c., 4C45
- Anthracycline derivatives**, detmn. of, by h.p.l.c., 12E29
- Anthraquinone**, detmn. of, in pulping liquors, by h.p.l.c., 8C78
- detmn. of hydroxy-derivatives of, by g.c. and g.c. - m.s., 3C25
- detmn. of impurities in, by g.c. and h.p.l.c., 5C80
- sepn. of, by h.p.l.c., 5C1
- , **1-amino-**, derivatives, detmn. of, in dyes, by h.p.l.c., 2C62
- , **1-methylamino-**, identn. of, in forensic samples, by g.c. - m.s., 3C65
- Antiarrhythmics**, detmn. of, in serum, by t.l.c. - reflectance scanning, 11D94
- Antibiotics**, chromatography of, 7E46B
- detection of β -lactam, in milk, by enzymic colorimetry, 2F27
- detmn. of, by FT i.r. internal-reflection spectrophotometry, 8E29
- by voltammetry, 6E29
- in biological fluids, by h.p.l.c., review, 3D38, 10D67
- in biological materials, by assay with microbial enzymes, 4D69
- in food, review, 8F1
- with microbial enzymes as diagnostic reagents, 4D2
- detmn. of aminoglycoside, in biological fluids, spectrophotometric, 12D69
- in blood, milk or urine, by pptn. and spectrophotometry, 8E37
- in serum, by fluoro-immunoassay, 1D39
- detmn. of anthracycline, by h.p.l.c., 12E29
- detmn. of antitumour, by h.p.l.c., review, 6E30
- detmn. of palladium in, by spectrophotometry, 6E24
- quinoid, fluorimetric study of, 7E12
- sepn. of, by droplet counter-current chromatography, review, 9J9
- Antibodies**, detmn. of, by enzyme immunoassay, 5D10
- with microbial enzymes as diagnostic reagents, 4D2
- detmn. of thyroglobulin and thyroid microsomal, by ELISA, 9D213
- Anticonvulsants**, detmn. of, in saliva, for therapeutic monitoring, 10D83
- in serum, by h.p.l.c., 12D73
- by liquid chromatography, 7D58
- by semi-automated enzyme immunoassay, 4D90
- Anti-corrosion oils**, adsorption of, on metal surfaces, ion-scattering spectrometric and secondary-ion m.s. study of, 7C66
- Anti-corrosives**, detmn. of fatty acids in, by potentiometric titrimetry, 1C42
- Antidepressants**, detection of, in urine, by computerized g.c. - m.s., 9D67
- detmn. of, in pharmaceutical preparations, chloranil in spectrophotometric, 3E25
- in plasma, by g.l.c., 9D70
- in serum, by h.p.l.c., automated sample preparation and injection for, 4J19
- detmn. of tricyclic, by rotating-disc-electrode voltammetry, 7E24
- in plasma, review, 9D71
- Antiepileptics**, detmn. of, in biological fluids, by h.p.l.c., 5D60
- in plasma, by h.p.l.c., 12D74
- laser-desorption chemical-ionization m.s. - m.s. of, 5J133
- Antigens**, detmn. of, by enzyme immunoassay, 5D10
- Antihistamines**, detmn. of, in animal feed, human urine and waste water, by h.p.l.c. or g.c., 9G12
- Antimony**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetry, 9A17
- by a.a.s., hydride generation in, 8B84
- by a.e.s., source in, 5J94
- by anodic-stripping voltammetry, 4B123
- by differential pulse anodic-stripping voltammetry, 9B107
- by differential pulse polarography, 4B125
- by flame a.a.s. with twin-spray injection system, 11B95
- by graphite-furnace a.a.s., 9B106
- by hydride generation - photoluminescence, 10B102
- by ICP a.e.s., with hydride generation, 5J102
- by titrimetry with dichromate, 5B174
- catechol violet - chlorpromazine in spectrophotometric, 3B70
- in air, by PIXE, 10H3
- in air-borne particulate matter, by hydride-generation a.a.s., 5H20
- in alloys, by voltammetry, 10B104
- in aluminium alloys, by a.c. polarography, 1B44
- in chromium, by a.a.s., 12B126
- in coal, by differential pulse polarography, 8B132
- in foods, by hydride-generation a.a.s., 11F1
- in gold and silver, by spectrophotometry, 1B30
- in hair, by n.a.a., 2D39
- in lead, by a.a.s. after pptn. with iron^{III} hydroxide, 10B88
- in manganese dioxide, by spectrophotometry, 8B109
- in marine sediments, by ICP a.e.s., 6H62
- in natural water, by n.a.a., 10H53
- in phosphorus, by a.a.s., hydride-generating system for, 5B169
- in selenium, by n.a.a., 4B130
- in silane, by emission spectrometry, 1B68
- in silicon, by n.a.a., 4B106
- by spectrography, 4B103
- in steel, by a.a.s., 5B232
- in trichlorosilane, by n.a.a., 8B65
- in water, by n.a.a., 6H47
- mandelic acid and malachite green in spectrophotometric, 3B69
- reagents for extraction - photometric, 6B116
- spectrophotometric, review, 3B18
- titrimetric, 10B103

Antimony—continued

- detmn. of tin in, by spectrophotometry, 6B117
 detmn. of trace, in food and biological reference materials, by n.a.a., 9F4
 extraction of, from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
 with dithiocarbamates, 6B22
 sepn. of, by h.p.l.c., as xanthate complexes, 4B24
 from tellurium, activated carbon as adsorbent in, 10B16
 sepn. of oxidation states of, by t.l.c., 3B20
Antimony compounds, g.c. of organic, storage and sample-introduction systems for, 10C3
 sepn. of impurities from, by solvent extraction, 5B175
Antineoplastics, detection of platinum-containing, by h.p.l.c., 12E59
 detmn. of antibiotic, by h.p.l.c., review, 6E30
Antioxidants, detmn. of, by counter-ion ion-exchange partition chromatography, 6E66
 in aviation turbine lubricants, by differential scanning calorimetry, 5C74
 in food, by t.l.c., 4F13
 in foods, by t.l.c. or h.p.l.c., 8F12
 in milk fat, by h.p.l.c., 10F46
 in polyalkenes, by h.p.l.c., 2C68
 review, 5E60
 identn. of, in polystyrene, by t.l.c., 2C72
Antipain, detection of, enzymic, 9D275
Antiperspirants, detmn. of aluminium in, by n.a.a., 11C58
Antipyrine derivatives, as extraction reagents, review, 9A11
Antipyrinylbis-[4-(benzylmethylamino)phenyl]methanol, as reagent for pptn. of metals, 11A10
Antiquities, identn. of pigments in, by Raman laser micro-probe, 10C83
Antistatic agents, detmn. of oxiran-based, in polyamides, pptn. - titrimetric, 8C84
Antithrombin III, detmn. of, with chromozym Th chromogenic substrate, review, 10D196
 α_1 -Antitrypsin, detmn. of, in serum, 4D254
 centrifugal analyser in, 4D10
Apalcillin, detmn. of, in serum and urine, by h.p.l.c., 1D44
Apatite, detmn. of carbonate in carbonated, i.r. spectrophotometric, 11D20
Aphos, detmn. of, in rye and wheat, by g.l.c. and t.l.c., 5G38
Apolipoprotein A-I, detmn. of, in monkey serum, by ELISA, 8D211
 in plasma, by electro-immunoassay, secondary standard for, 12D197
 in serum, by radial immunodiffusion and gel electrophoresis, 11D211
 turbidimetric, 12D198
 in serum and lipoproteins, by laser nephelometry, 9D219
 in serum lipoproteins, by electroimmunoassay, 4D264
Apolipoprotein A-II, detmn. of, in plasma, by immunonephelometry, 9D216
 in serum, by immunonephelometry, 1D180
Apolipoprotein B, detmn. of, by competitive enzyme-linked immunoassay, 7D201
 in low-density lipoprotein of serum, after pptn. of very-low-density lipoprotein, 9D218
 in plasma, by r.i.a. with monoclonal antibodies, 6D265
 in plasma lipoproteins, 5D212
 in serum, by immunonephelometry, effect of lipase treatment and detergents in, 1D179
 by non-competitive enzyme-linked immunoassay, 8D209
 in serum and lipoproteins, by laser nephelometry, 9D219
 in serum lipoproteins, by electroimmunoassay, 4D264
Apolipoprotein C-II, detmn. of, in serum lipoproteins, by electroimmunoassay, 4D264
Apolipoprotein E, detmn. of, in serum and lipoproteins, by laser nephelometry, 9D219
Apolipoproteins, detmn. of, in serum, review, 12D196
 sepn. of, by chromatofocusing, 1D177
 by h.p.l.c., 7D202
Apomorphine, detmn. of, in brain tissue and plasma, by h.p.l.c., 8D64
 fluorescence of, effect of micelles on, 9C6
Apple juice, analysis of, geographic study of results of, 4F58
 detmn. of fructose and glucose in, by ion chromatography, 5F2
 detmn. of fructose in, colorimetric, 10D119
 detmn. of *trans*-hex-2-enal, hexanol and butanol in concentrates and liqueurs made from, by g.l.c., 9F45
 detmn. of lead in, by anodic-stripping voltammetry, 7F63
 detmn. of patulin, citrinin and aflatoxins in, by t.l.c., 8F44
 detmn. of volatile compounds in, in presence of sodium chloride, by g.c. and aroma test, 9F42
 identn. of organic acids in, by liquid chromatography, 7F70
Apples, detmn. of 1-aminocyclopropane-1-carboxylic acid in, by extraction - g.c., 6F57
 detmn. of dietary fibre in, 6F4
 detmn. of dithianon in, by h.p.l.c., 7G32
 detmn. of ethoxyquin in, by g.l.c., 4F56
 by h.p.l.c., 8G3
 detmn. of organophosphorus insecticides in, automated enzymic, 2F35
 detmn. of patulin, citrinin and aflatoxins in, by t.l.c., 8F44
 detmn. of pesticides in, by g.l.c., 2F33
 detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14

Apples—continued

- detmn. of pyrazophos in, spectrophotometric, 12G10
 detmn. of quinomethionate in, by h.p.l.c., 2G21
 detmn. of sorbitol in, enzymic, 10G8
 identn. of aroma compounds in, by g.l.c. and g.c. - m.s., 4F57
Apramycin, detmn. of, in fermentation broth, by h.p.l.c., 8E40
Apricots, detmn. of amygdalin in, by h.p.l.c., 4F54
 detmn. of 5-hydroxytryptamine in, by spectrofluorimetry and t.l.c., 8F45
Aprindine, detmn. of, with its metabolite, in plasma, by h.p.l.c., 5D83
Aprotinin, detmn. of, by automated pH-stat titration, 3J120
Aptazapine, detmn. of, in plasma, by h.p.l.c., 11D78
Aqueous humour, analysis of proteins of human, by gel electrophoresis, 10D189
Arabinitol, detmn. of, in serum, by g.l.c., 6D145
 sepn. of enantiomers of, by g.l.c., 5C19
 α -L-Arabinofuranosidase, assay of, in *Aspergillus fumigatus*, spectrophotometric, 3D275
Arabinose, detmn. of, in tobacco leaves, by g.l.c., 11D120
L-Arabinose, detmn. of, enzymic - spectrophotometric, 3D275
Arachidonate, sepn. of, in safflower oil, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43
Arachidonic acid, detection of metabolites of, by t.l.c., 7D126
 by t.l.c. - autoradiography, 12D127
 detmn. of, in plasma, 9-aminophenanthrene as fluorescent labelling agent in h.p.l.c., 10D126
 detmn. of metabolites of, in biological materials, by g.c. - m.s., 2D138
 by t.l.c., 2D140
 review, 11D134
 identn. of α -diols derived from, in biological materials, by g.c. - m.s., 2D138
 sepn. of acid metabolites of, by h.p.l.c., 8D114
 sepn. of metabolites of, by h.p.l.c., 9A1B
Arachidonic acid hydroperoxide, detmn. of, by differential pulse polarography, 6C11
Arachidonic acid sodium salt, explosive hazard of, 4A32
Araliaceae spp., detmn. of oleanolic acid glucosides in, by t.l.c. - densitometry, 4E18
Arbutin, detmn. of, enzyme electrode for, 11D122
Archaeological materials, analysis of, by fast-atom-bombardment m.s., 10B176
 by particle-induced prompt photon spectrometry, 5J70
 detmn. of radioactive carbon in, by scintillation counting, 5C5
 detmn. of trace metals in iron, by n.a.a. and a.a.s., 11B14
 organic analysis of, by i.r. spectrometry, 1C32
Arenesulphonates, sepn. of, by h.p.l.c., 2C32
Arenesulphonic acid sodium salt, detmn. of, in detergents, by h.p.l.c., 3C56
Argemone, detection of, in oil-cakes, by t.l.c., 4G18
Argillites, detmn. of molybdenum in, by a.a.s., 3B78
Arginine, detection of, microbial electrodes in amperometric and potentiometric, review, 11J01
 detmn. of, bacterial electrode for, 8D171
 —, *N*-acetyl-, identn. of, in urine, by desorption chemical-ionization m.s., 12D164
Arginine carboxypeptidase, assay of, in plasma, by h.p.l.c., 3D262
 in serum, by spectrophotometry, 5D245
Arginine hydrochloride, identn. of, microscopic and chemical, 1E1
Argininosuccinate synthetase, assay of, radiochemical, 8D257
Argon, detmn. of, in gases, by g.c., 5J6, 7B20
 by g.s.c., 3D11
 in neon, by quadrupole m.s., automated instrument for, 5J131
 in nickel alloys, by m.s., 1B5
 detmn. of dissolved, in water, 5H38
Aroclor 1245, sepn. of components of, by h.p.l.c., 11J13
Aroclor 1260, analysis of, by g.c. - c.c.d., 12J65
Aroma compounds, detection of, in *Coffea arabica* berries, by g.c. - FT i.r. spectrometry, 10F56
 detmn. of, in celery, by g.c. - m.s., 6F62
 in coffee, by g.c., 4F67
 by head-space g.l.c., 10F58
 in food, by liquid chromatography, review, 9F13
 identn. of, in apples, by g.l.c. and g.c. - m.s., 4F57
 in rye bread, by chromatography, 4F23
Aromatic compounds, characterization of oxygen-containing, by chemical-ionization m.s., 12C51
 detmn. of, in coal tar and petroleum distillates, by h.p.l.c., 1C29
 in soln., by laser photo-ionization, 5C53
 detmn. of hydroxylated, by h.p.l.c., 1D29
 identn. of polar, in coal liquids, by h.p.l.c., 3C51
 polycyclic, as reference materials, review, 11A12
 sepn. of, by g.c., 8J59
 by t.l.c. with liquid carbon dioxide as mobile phase, 10J60
 in synthetic fuels and coal liquid, by liquid chromatography on picric acid - alumina, 4C64
 of coal-derived oil, by chromatography on alumina, 9C62
 sepn. of polar, by t.l.c., silanized silica layers in, 4J51
 —, *m*-dinitro-, detection of traces of, spot test for, 6C28
Arsanilic acid, detmn. of aniline in, by h.p.l.c., 4G24
Arsanilic acid sodium salt, detmn. of aniline in, by h.p.l.c., 4G24

- Arsenate**, detmn. of, by h.p.l.c. - ICP a.e.s., 3B68
 in water, by hydride generation - a.a.s., 5H61
 by ion chromatography, 10H57
 in well water, by h.p.l.c. - ICP a.e.s., 11H44
 sepn. of, from other oxoanions, by ion-exchange chromatography, 5B194
- Arsenazo compounds**, as spectrophotometric reagents for rare-earth metals, 6B77
- Arsenic**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 by a.a.s., decontamination of graphite furnace in, 2J75
 by a.a.s. of hydride, interference by copper, iron and nickel in, 12B111
 interference by nickel in, 12B112
 by a.a.s. or a.e.s., as hydride, 5J89
 by a.e.s., source in, 5J94
 by a.f.s., 6J145
 by anodic-stripping voltammetry, 4B123
 flow-through cell for, 5B170
 by graphite-furnace a.a.s., 9B106
 by hollow-cathode emission spectrometry, 8B83
 by hydride generation - a.a.s., 1B88, 5B173
 by hydride generation - photoluminescence, 10B102
 by ICP a.e.s., with hydride generation, 5J102
 by spectrophotometry, 5B172, 7B89
 by titration with manganese, 10A10
 by XRF after collection on polyurethane foam, 11B94
 in air, efficiency of filter sampling for, 9H19
 filter and charcoal tube system for, 1H11
 in air-borne particulates, by flame a.a.s., 2H13
 in beer, by a.a.s., 8F58
 in biological fluids, by a.a.s., review, 6J130
 in biological materials, by a.a.s., 2B60
 by n.a.a., yield tracers in, 12J138
 by vaporization - plasma emission spectrometry, 6D36
 by wet digestion - a.a.s., 5D31
 in biological materials and water, by differential pulse polarography, 8H62
 in biological tissues, 4D51
 external contamination in, 5D30
 in biota, by a.a.s., 12D108
 in bone, by ICP a.e.s., 2D10
 in coal, by differential pulse polarography, 8B132
 by graphite-furnace a.a.s., interference by aluminium in, 8B133
 in copper - nickel alloy, by electrothermal a.a.s., 2B59
 in drinking water, by a.a.s., 2H44
 by photometry, 5H57
 in environmental materials, by a.a.s., 9H52
 foods and biological fluids, by a.a.s., 12H5
 methods and computer program for, 12H4
 in feeding-stuffs, by a.a.s. and spectrophotometry, 11G20
 by spectrophotometry, 4G22
 in fish, by a.a.s., decomposition procedure for, 3D23
 in foods, by differential pulse anodic-stripping voltammetry, 10F1
 in fungicide-treated timber, spectrometric, 9C73
 in geological materials, by XRF, 6B114
 in ground water, by spectrophotometry after co-pptn. with zirconium hydroxide, 9H48
 spectrophotometric, 3H46
 in hair, by n.a.a., 2D39
 in hair and in drinking water, by a.a.s., 11H40
 in marine organisms, by a.a.s., wet-digestion in, 1D28
 in marine organisms and algae, by a.a.s., digestion in, 4D52
 in marine sediments, by ICP a.e.s., 6H62
 in mineral waters, by a.a.s., 9H50
 in natural water, by flotation separation and a.a.s., 9H49
 by n.a.a., 10H53
 in nylon 612, by XRF, 9C80
 in ores, by spectrophotometry, 2B61
 in ores and rocks, by pulsed-excitation spectroscopy, 11B105
 in paper and its products, by a.a.s., 10C74
 in petroleum, by anodic-stripping voltammetry, 9C50
 in phosphate rock reference material, 5A16
 in phosphorus, by a.a.s., hydride-generating system for, 5B169
 in potable water, by a.a.s., 9H40
 in presence of bromine, by n.a.a., 4B124
 in quartz glass, extraction - spectrophotometric, 7B153
 in rocks, by a.a.s., memory effects in, 2B62
 in rocks and soils, by emission spectrography, 7B47
 in sediments, by Zeeman flame a.a.s., 7H47
 in selenium, by n.a.a., 4B130
 in silane, by emission spectrometry, 1B68
 in silicate-rock reference materials, by a.a.s., 9B92
 in silicon, by spectrophotometry, 1B69
 in soil, by differential pulse polarography, 8G6
 rocks, plants and meat, by a.f.s., 4G14
 in soil and sediments, by a.a.s., 3G5
 in steel, by anodic-stripping voltammetry, 5B171
 by spectrophotometry, 1B131
 by voltammetry, 10B145
- Arsenic**, detmn. of, in steel,—*continued*
 niobium, tantalum, molybdenum and slag, by chlorination - m.s., 8B64
 in synthetic sea-water, by ICP a.e.s., 7B17
 in table salt, 8F49
 in tears, by a.a.s., 2D15
 in tellurium, by n.a.a., 1B103
 in tissues and sediments, by spectrophotometry, 3D24
 in urban dust, by a.a.s., optimized extraction procedure for, 4H15
 in urine, by a.a.s., automation of, 9D29
 by Zeeman-effect electrothermal a.a.s., 11D28
 in water, by automated a.a.s., 5H66
 by ion-exchange chromatography, 5B194
 by n.a.a., 6H47
 in estimation of pollution potential of oil shale, 1C25
 in water and fish, by hydride generation - direct-current plasma emission spectrometry, 10B101
 in water and waste water, by spectrophotometry of sol formed by arsenic hydride and silver, 5H63
 in well water, by h.p.l.c. - ICP a.e.s., 11H44
 iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
 ion-selective electrode in, 7J129
 potentiometric, 8B82
 spectrophotometric, review, 3B18
 detmn. of implanted, in silicon, by Rutherford back-scattering, 12B82
 detmn. of inorganic and organic, in marine algae, by a.a.s. as arsine, 6D46
 detmn. of trace, in food and biological reference materials, by n.a.a., 9F4
 in water, pre-concentration on thionalide-impregnated silica in, 12B109
 in water and urine, by electrothermal a.a.s., 9H51
 detmn. of trace elements in, by a.a.s., 6B115
 by emission spectrometry, device for, 3B5
 extraction of, with dithiocarbamates, 6B22
 sepn. of, by h.p.l.c., as xanthate complexes, 4B24
 sepn. of oxidation states of, by t.l.c., 3B20
 —, **dimethyl-**, detmn. of, with zinc column arsine generator, 6C16
 —, **methyl-**, detmn. of, with zinc column arsine generator, 6C16
Arsenic acid, detmn. of arsenic^v in production of, 12B110
Arsenic compounds, detmn. of, in air, by a.a.s., 8H15
 in biological materials and soil, 6D47
Arsenic(III), sepn. of, from other arsenic species, in natural waters, by anion exchange, 6H66
Arsenic(V), detmn. of, in production of arsenic acid, 12B110
 sepn. of, from other arsenic species, in natural waters, by anion exchange, 6H66
Arsenite, detmn. of, by h.p.l.c. - ICP a.e.s., 3B68
 in water, by graphite-furnace a.a.s., *s*-butyl phosphorodithioate in, 12H65
 by hydride generation - a.a.s., 5H61
 in well water, by h.p.l.c. - ICP a.e.s., 11H44
Arsine, detmn. of, in air, by chemiluminescence, instrument optimization in, 4H22
 spectrophotometric, 9H17
 —, **hydroxydimethyl-, oxide**, detmn. of, in environmental materials, foods and biological fluids, by a.a.s., 12H5
 in urine, by Zeeman-effect electrothermal a.a.s., 11D28
 in water, by hydride generation - a.a.s., 5H61
 sepn. of, from other arsenic species, in natural waters, by anion exchange, 6H66
Arsen analysis, detection of accelerant vapours in, 8C55
 identn. of fire accelerants in, by g.c. - m.s., 8C54
Art conservation, FT i.r. spectrometry in, 3J83
Artemether, detmn. of, by n.m.r., 6E20
Artemisinin, detmn. of, by u.v. spectrophotometry, 5E51
 detmn. of artemether in, by n.m.r., 6E20
Aryl sulphotransferase, assay of, in whole blood, 6D298
Asbestos, detection of, in environmental and ore samples, by microscopy, 1B157
 detmn. of, in air, 7H2, 12H14
 by electron microscopy, 5H12
 by transmission electron microscopy, reference method for, 5H11
 membrane filter in, 4H14
 sample preparation in, 7H10
 in air and water, by transmission electron microscopy, membrane-filter direct-transfer technique for, 5B271
 detmn. of fibres of, in air, by i.r. - a.t.r. spectrometry, 10H31
 by membrane filter method, 3H4
 detmn. of palladium in, by spectrophotometry, 1B142
 identn. of, by laser micro-probe mass analysis of adsorbed dimethylamine derivatives, 7B141
 identn. of fibres of, in air, water or biological materials, by light and X-ray microscopy, 12H1
Ascorbic acid, detection of, in citrus and tomato juices, "sandwich"-indicator stick for, 3F24
 detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 by fluorimetry, 2D227

Ascorbic acid, detmn. of, —continued

- by h.p.l.c., electrochemical detector for, 12J43
- by i.r. spectrophotometry, 5F15
- by voltammetry, electrode for, 7J137
- graphite electrode in kinetic - catalytic, 8B94
- in blood, by h.p.l.c. of quinoxaline derivative, 8D225
- in cereal foods, inter-laboratory, 10F4
- in food, review, 9F9
- in foods, by fluorimetry, 7F17
- in fresh fruit and vegetables, by liquid chromatography, micro-fluorimetry or dye titration, 7F67
- in fruit and vegetable juices, by difference spectrometry, 9F38
- in fruit and vegetables, by h.p.l.c., 10F49
- in fruit juices and drugs, by titrimetry, 1F16
- in lettuce, chicory and endive, 12F26
- in mixtures, by thermometric titrimetry - constant-current coulometry, 5E26
- in pharmaceutical preparations, by cerimetry, indicator for, 6A5
- chloranil in titrimetric, 12E34
- in pharmaceuticals and fruit juices, spectrophotometric, 11E18
- in plasma or serum, by spectrophotometry, 4D295
- in tablets, by a.a.s., 4E32
- by potentiometric titration with iodate, 8B93
- in tissues, by h.p.l.c. and colorimetry, 3D245
- in urine, colorimetric, 7D234
- with test strips, review, 1D2
- in vegetables, by ion chromatography, 6F65
- iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
- manganese^{III} in coulometric titrimetric, 12A7
- photometric, 8D226
- simultaneously with isovitamin C, in foods and beverages, by h.p.l.c. with pre-column derivatization, 11F4
- g.c. - m.s. of TMS derivatives of, 9C8
- sepn. of, by high-performance t.l.c., effect of mobile-phase temp. in, 9J50
- , **dehydro**-, detmn. of, in fruit and vegetable juices, by difference spectrometry, 9F38
- in lymphocytes, by h.p.l.c., 6D289
- Ashes (residues)**, detmn. of acid-insoluble, in pulp, by gravimetry, 9C74
- Asparaginase**, assay of, automated, 1D215
- Asparagine**, detmn. of, bacterial electrode in, 11J135
- Asparagine synthetase**, assay of, by h.p.l.c., 9D274
- Aspartame**, detmn. of, by h.p.l.c. - indirect spectrophotometry, 7F23
- in beverages, by h.p.l.c., 2F9
- in foods, by h.p.l.c., 10F19
- sepn. of α - and β -, by t.l.c., 11F8
- Aspartate**, detmn. of, in amino-acid mixtures, by h.p.l.c., 10D170
- Aspartate aminotransferase**, assay of, continuous-flow, 7D240
- immuno-, review, 5D235
- in plasma and blood, pyridoxal 5-phosphate in automated, 8D240
- in plasma or serum, threshold-value test for, 9D256
- in serum, 4D334
- interference by metronidazole in, 6D296
- standards for, 5D237
- assay of isoenzymes of, in serum, by electrophoresis - densitometry, 4D311
- measurement of coenzyme activation of, in blood, kinetic, 8D227
- Aspartate carbamoyltransferase**, assay of, by spectrophotometry, 6D299
- phosphate-releasing reaction in, 4D315
- Aspartic acid**, detmn. of, by h.p.l.c., 3D148
- in brain tissue, by column chromatography - fluorimetry, 9D186
- in sea-water, by h.p.l.c., 3H62
- Aspartic proteinase**, assay of, substrates for, 3D265
- Aspen wood oil**, characterization of organic compounds in, by spectroscopy and chromatography, 4C78
- Aspergillus fumigatus**, assay of α -L-arabinofuranosidase in, spectrophotometric, 3D275
- Aspergillus oryzae**, assay of α -amylase in fermentations of, by flow-injection analysis, 12D234
- Aspergillus parasiticus**, sepn. of aflatoxin biosynthetic intermediates in, by h.p.l.c., 9D152
- Aspergillus wentii**, detmn. of emodin in, by t.l.c., 10F6
- Asphaltenes**, detmn. of, in bitumen, heavy oils and synthetic fuels, by t.l.c. on Chromarods, 1C22
- in coal liquids, extraction in, 4C65
- detmn. of total in coal-derived liquids, by t.l.c. - f.i.d., 9C65
- sepn. of, in oil sand and crude oil, by liquid chromatography, 7C54
- Asphalts**, analysis of, by ion exchange, 1C23
- identn. of organic sulphides in, by i.r. spectrometry, 9C60
- Aspirin**, detmn. of, by flow-injection analysis - voltammetry, 2C28
- in biological fluids, by h.p.l.c., 6D89
- in blood and plasma, by h.p.l.c., 7D64
- in mixtures, by thermometric titrimetry - constant-current coulometry, 5E26
- in pharmaceutical preparations, by h.p.l.c., 4E33
- in plasma, by g.l.c., 6D82
- by h.p.l.c., 3D48
- in plasma and urine, by h.p.l.c., 4D100
- in serum, by g.l.c. of TMS derivatives, 4D102

Aspirin, detmn. of, —continued

- in tablets, by h.p.l.c., 9E34
- sepn. of, from caffeine and phenacetin, by micro h.p.l.c., 10J18
- study of stability of, in blood and plasma, 4D101
- Astemizole**, detmn. of, with its metabolite, in animal plasma and tissues, by h.p.l.c., 7D85
- Astromicin**, detmn. of, in serum, by h.p.l.c., 9D51
- Asulam**, detmn. of, in plants, soil and water, by fluorimetry as sulphanilamide, 5G36
- in soil, by isotachophoresis and liquid chromatography, 10G20
- by t.l.c., 2G20
- AT-2266**, detmn. of, with its metabolites, in plasma and urine, by h.p.l.c., 7D86
- Atenolol**, detmn. of, in biological fluids, by h.p.l.c., 4D116
- in plasma, by h.p.l.c., 2D91
- in plasma and urine, by h.p.l.c., 3D65
- Athelia bicolor**, detmn. of fatty acids in, as methyl esters, by h.p.l.c. - g.l.c., 8D117
- Atmosphere**, optical transmittance of, automated spectrophotometer for measurement of, 4J101
- Atrazine**, detmn. of, in sediments, by g.l.c., 7H69
- in water, by g.l.c. after sorption on porous polymer, 5H83
- by g.l.c. and g.l.c. - m.s., 2H60
- Atropine**, detmn. of, by indirect polarography, 2E6
- electrodes for, 12J166
- in belladonna tincture, by h.p.l.c., 4E13
- in tablets and eye-drops, spectrophotometric, 2E10
- in tablets or injections, by second-derivative u.v. spectrophotometry, 7E7
- sepn. of, by t.l.c., 1E7
- from hyoscyne, by reversed-phase ion-pair chromatography, 9E2
- Atropine hydrochloride**, detmn. of, by potentiometric titrimetry, 7C26
- Atropine sulphate**, study of stability of, in plastic containers, by isothermal testing, 3E6
- Aurin**, analysis of, by secondary-ion m.s., 11J115
- Austenite**, detmn. of, in steel, standard reference material for, 5A14
- Automated analysis**, Beckman ASTRA in, drift in results for sodium with, 1D13
- by h.p.l.c., on-line pre-treatment in, 1D55
- by IL System 1303, "sampling error" message in, 2D5
- by isotachophoresis, 6J53
- by isotope-source n.a.a., sample changer for, 6J163
- by thermogravimetry, 1C26
- carry-over in, with Hitachi 705 analyser, 4J11
- centrifugal analyser for, 4D10
- chromatographic, 9A29
- clinical, continuous-flow instruments for, 3J5
- colorimetric instruments for, day-to-day variation in results for, 12D6
- computer applications in, 11J11
- data-processing systems in, 6J17
- discrete and centrifugal instruments for, 12D9
- flow-injection, in detmn. of β -lactams, 10E19
- for chloride, instrument for, 11B120
- for dissolution studies, 1J15
- for moisture, on-line non-contact methods for, review, 9J4
- for monitoring of ethanol in beer, system for, 9F47
- for quinzarin in oils, instrument for, 2C47
- for urea and glucose, in plasma, 1D124
- homogenous immunoassay in, fluorimeter - photometer system for, 4J10
- immobilized enzyme reactors in, dispersive analysis of, by flow-through microfluorimetry, 1J16
- immunochemical, instrument for, 12J9
- in clinical analysis, instruments for, 9D1
- in detmn. of ammonia and nitric acid in air, by tungsten^{VI} oxide technique, 3H9
- in detmn. of ionized calcium in blood, instruments for, 6D33
- in detmn. of nitrogen and nitrogen-15, by m.s., 1B83
- in detmn. of nitrogen in organic materials, 8C4
- in detmn. of proteins, DNA and enzymes, computerized, 10D11
- in detmn. of total organic carbon in waste water, instruments for, 6H97
- in detmn. of water, Karl Fischer titrator for, 10B24
- in pharmaceutical laboratory, review, 1J13
- in pharmaceutical quality control, instrument for, 12E4
- in potentiometric titrimetry, 8J130
- in protein sequence analysis, 6D239
- in sample preparation, for detmn. of pesticides in non-fatty foods, 10F15
- in stripping chronopotentiometry, 9B94
- instruments for, increased productivity of, 10J8
- sodium and potassium ion-selective electrodes in, 9D18
- inter-laboratory evaluation of FP-900 instrument for, 6J22
- Mitsubishi GL-101 Glucose Analyser for, 8J9
- of asparaginase, 1D215
- of biological materials, instruments for, 10D2
- of blood, instruments for, 6D9, 9D10
- of blood serum, effect of diazepam on, 9D4
- instrument for, 6D10
- of dopants in silicon, apparatus for, 1B67
- of fats and proteins in milk, by i.r. absorption spectrometry, instrument for, 10F40

Automated analysis—continued

- of gases, by quadrupole m.s., 5J131
 of on-line processes, by liquid chromatography, review, 7J16
 of pharmaceutical preparations, 1E4
 of serum, Hitachi 705 analyser for, 8J10
 of soil, 10G10
 of sulphur, in plants, instrument for, 11D29
 of uronic acids, by colorimetry, instrument for, 1D97
 of water, IQAS discrete analyser for, 8H42
 microcomputer-controlled system for, 9H56
 photometric, in clinical chemistry, review, 12D1
 photometric system with reagents in tablet form for, 4J8
 Quantum II microbiology system for, 10J10
 random-access fluid technology in, 4J12
 robots in, 1J14
 sampler in, device to prevent jamming of, 6J20
 SMAC instrument in, computerized control of, 6J21
Autoradiography, calibration in, of tritium, 12J147
 californium-252 source for, 12J139
 computerized evaluation of autoradiograms in, 5J160
 in analysis of semiconductors, 11B164
 in gel electrophoresis, intensification of under-exposed images in, 11J41
Avermectin B_{1a}, 22,23-dihydro-, detmn. of, in animal plasma, by h.p.l.c., 8D82
Averufin, sepn. of, from *Aspergillus*, by h.p.l.c., 9D152
Aza-arenes, detection of, by h.p.l.c., hydrophilic complexes in, 2C35
 detmn. of, in high-protein foods, by g.c., 7F37
 identn. of, in crude petroleum, by capillary g.c. - m.s., 11C36
1-Azabicyclo[2.2.2]octane, 2,2,6,6-tetramethyl-, hydrobromide, detmn. of, bromothymol blue in extraction - photometric, 6E61
Azadirachtin, detmn. of, in neem kernels, by h.p.l.c., 10D151
Azaphen, sepn. of, from similar pharmaceutical amines, by t.l.c., 2E36
Azapropazone, detmn. of, by spectrophotometry, 4E38
Azazole, detmn. of, in plasma, by h.p.l.c., 5D92
 —, dihydro-, detmn. of, in plasma, by h.p.l.c., 5D92
Azide, detmn. of, by argentometry, indicator for, 4B23
Azinphos-methyl, detmn. of metabolites of, h.p.l.c. and enzymic methods for, 1D77
Azlocillin, detmn. of, in serum, by h.p.l.c., 6D63
Azobenzene, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
 in phenylbutazone or sulphinyprazone, by h.p.l.c., 5E35
Azodicarboxamide, detmn. of, by i.r. spectrophotometry, 5F15
Aztreonam, detmn. of, in serum and urine, by h.p.l.c., 6D67
Azulenes, detmn. of, in chamomile extracts, by h.p.l.c., 11C57
Azurite, identn. of, in antiquities, by Raman laser micro-probe, 10C83

B

- Babassu oil**, analysis of, by pyrolysis - g.c. - m.s., 6F82
Baby food, detmn. of free amino-acids in, by titrimetry, 4F7
 detmn. of nitrite and nitrate in, by spectrophotometry, 12F2
 detmn. of oestrogens in, by g.c. - m.s., 5F7
 detmn. of sugars and starch in, by extraction - colorimetry, 12F12
Bacillus pumilus, assay of protease of, effect of penicillin on, 11D250
Bacillus subtilis, assay of protease of, azocoll in colorimetric, 9D267
Bacon, detmn. of amines in, by h.p.l.c., 7F14
 detmn. of N-nitrosopyrrolidine in fried dry-cured, 12F15
Bagasse, detmn. of water in, by i.r. reflectance, 4A1B
Baicalin, detmn. of, in pharmaceutical preparations, by t.l.c., 9E17
Bakery products, detmn. of glucose, sucrose and lactose in, enzymic, 4F24
 detmn. of maltose in, by h.p.l.c., 6F30
Bamifylline, detmn. of, in plasma, by h.p.l.c., 6D57
Bank-notes, characterization of, by X-ray diffraction, 5C97
 identn. of dyes in forensic samples of, by g.c. - m.s., 3C65
Baobab, detmn. of cyclopropanoic acids in seeds of, micro-method for, 4G5
Barban, detmn. of, in sediments, by g.l.c., 7H69
Barbitone, detmn. of, by bromination and spectrophotometry, 5E6
 by potentiometric titration with mercury, 4E36
Barbiturates, detmn. of, in plasma and urine, by g.c., 3D44
 in serum, by EMIT, 6D75, 8D48
 reagents for fluorimetric, 5A11
 identn. of, by h.p.l.c. with computerized multi-wavelength detection, 7E19
 identn. of 5,5-disubstituted, 9E33
 m.s. of, review, 8E51
 sepn. of, by h.p.l.c., liquid - liquid phase systems in, 10J33
 by t.l.c., short-bed continuous development in, 8E52
 —, N-methyl-, sepn. of racemates of, by liquid chromatography, 11E22
Barbituric acid, detmn. of derivatives of, by potentiometric titration with mercury, 4E35
 —, ethylisopropyl-, detmn. of, in plasma, by g.l.c., 3D45
Barbituric acid derivatives, 5,5-dialkyl-, sepn. of, by reversed-phase t.l.c., 12E38
Barium, detmn. of, by differential pulse stripping voltammetry, 2B25
 by extraction - complexometric titration, 7B41
 by graphite-furnace a.e.s., 9B15
 by X-ray spectroscopy, 11B44
 complexometric, 10C27
Barium, detmn. of, —continued
 in acid soln., by pulse polarography, 1B34
 in amniotic fluid, by PIXE - a.e.s., 1D23
 in apatite - nepheline ores, by γ -activation analysis, 3B108
 in bastnaesite, by ion exchange, 3B54
 in europium-doped barium magnesium aluminate, 11B170
 in natural waters, by ion exchange - XRF, 8H55
 in potable water, by a.a.s., 9H40
 in presence of carbon black, by flame spectrometry, 9B34
 in quicklime, hydrated lime and calcium carbonate, 9B38
 in rocks and soils, by a.a.s., 1B151
 in sheet glass, 7B151
 in silicates, by energy-dispersive X-ray spectrometry, 11B74
 in sulphide ores, by flame a.a.s., 1B35
 simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
 tetraphenylborate in potentiometric titrimetric, 10B42
 extraction of, 2B23
 sepn. of, from manganese, by ion exchange on stannic arseno-antimonate, 9B139
 from other bivalent cations, by chromatography on zirconium molybdate, 3B2
 from strontium, by column chromatography on manganese dioxide, 4B64
Barium magnesium aluminate, detmn. of barium, magnesium, aluminium and boron in europium-doped, 11B170
 detmn. of europium in, by emission spectroscopy, 5B288
Barium manganese aluminate, detmn. of manganese in, 9B60
Barium titanate, detmn. of barium in, tetraphenylborate in potentiometric titrimetric, 10B42
Bark, detection of organochlorine insecticides in, by t.l.c., 3,3',5,5'-tetramethylbenzidine as spray reagent for, 9G24
 detmn. of trace elements in tree, by ICP a.e.s., 12D14
Barley, amino-acid sequencing of prolamins and glutelins of, by ion-exchange chromatography, 9G6
 analysis of, by near-i.r. spectrometry, 6F73
 assay of superoxide dismutase in, 5F47
 detection of, in coffee, by g.l.c., 4F66
 detection of lysine in, fluorimetric, 1G3
 detmn. of citrinin in, by t.l.c. on glycolic acid-impregnated plates, 10G6
 fluorimetric, 10F9
 detmn. of β -glucan in, enzymic, 5F46, 12F31
 detmn. of ioxynil and bromoxynil in, by h.p.l.c. with spectrophotometric or electrochemical detection, 9G22
 detmn. of ochratoxin A in, by enzyme-linked immunosorbent assay, 7G5
 detmn. of pesticides in, by g.l.c. and h.p.l.c., 7G33
 detmn. of phenolic carboxylic acids in, by extraction - h.p.l.c., 12F34
 detmn. of water and protein in, by near-i.r. spectrometry, 7F84
 detmn. of zearalenone in, by h.p.l.c., 5G25
 identn. of varieties of malting, by electrophoresis, 5F48
 remote sensing of condition of, by reflectance measurement, instrument for, 4G2
Barley flour, detmn. of metals in, by a.a.s., 8F20
Basalt, analysis of films of, by m.s., layer-by-layer, 9B91
 analysis of lunar, by instrumental and radiochemical n.a.a., 8B129
Bases, detmn. of, constant-current coulometric, 3A9
 from rate of reaction with powdered metals, 7B3
Bastnaesite, detmn. of rare-earth and alkaline-earth metals in, by ion exchange, 3B54
Bauxite, detmn. of aluminium and silicon in, by n.a.a., error in, 8B45
 detmn. of gallium, thorium and uranium in, by epithermal n.a.a., 8B47
 detmn. of gallium and trace elements in, by n.a.a., 5B77
 detmn. of vanadium in, by spectrophotometry, 4B167
Beans, detmn. of carbaryl residues in, spectrophotometric, 10F50
 detmn. of chlorophylls and pheophytins in, by t.l.c. and fluorimetry, 7F76
 detmn. of cyanogenic glucosides in paste of, enzymic, 7F75
 detmn. of iron and zinc in, by ion chromatography, 5F2
 detmn. of non-starch polysaccharides in, 6F12
 detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14
 detmn. of sodium in, by n.a.a., 6F60
Beef, analysis of aroma volatiles of cooked, by head-space g.c., 9F23
 assay of dihydrolipoamide reductase (NAD⁺), citrate (si)-synthase and 3-hydroxyacyl-CoA dehydrogenase in, 11F16
 detection of adulteration of, with other meats, by electrophoresis, 6F35
 detmn. of 2-amino-3-methylimidazo[4,5-f]quinoline in cooked, by h.p.l.c., 1F7
 detmn. of antibiotics in, *Bacillus stearothermophilus* in microbiological, 8F26
 detmn. of biogenic amines in, by cation-exchange chromatography, as indication of freshness and quality, 9F24
 detmn. of calcium in, titrimetric with EDTA, 2F15
 detmn. of fat, protein and water in, by near-i.r. spectrophotometry, 1F10
 detmn. of heavy metals in, by voltammetry, 12D37
 detmn. of methylthiouracil in, by high-performance t.l.c., 7D95
 detmn. of nicotinic acid and nicotinamide in, by h.p.l.c., 3F15
 detmn. of sodium in, by ion chromatography, 5F2

Beef—continued

- detmn. of sulphonamides in, by t.l.c., 2D101
 measurement of degree of oxidation of lipids in, by thiobarbituric acid methods, 7F39
- Beer**, detmn. of alcohols in, by g.l.c., 4F62
 detmn. of antimony in, by hydride-generation a.a.s., 11F1
 detmn. of bitter acids in, by h.p.l.c., 8F55
 detmn. of carboxylic acids and 2-oxoacids in, by ion-exclusion chromatography, 6C12
 detmn. of cysteine in, by h.p.l.c. - fluorimetry, 7F85
 detmn. of dimethylnitrosamines in, by g.l.c., 3F28
 detmn. of ethanol in, bio-electrochemical, 7F86
 by direct g.c., 10F63
 on-line system for, 9F47
 oxidase electrode in flow-injection, 6F76
 detmn. of flavonols in, by g.l.c., 9F48
 detmn. of formaldehyde in, by h.p.l.c. as its 2,4-dinitrophenylhydraz-one, 5F50
 detmn. of high-mol.-wt. nitrogen compounds, polyphenols and glucan in, review, 6F75
 detmn. of 5-hydroxymethyl-2-furaldehyde in, 5F49
 detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126
 detmn. of low-mol.-wt. compounds in, by g.c., head-space or split injection in, 11I53
 detmn. of metals in, by a.a.s., 8F58
 detmn. of nitrate in, 6F74
 detmn. of nitrosamines in, by g.l.c., 4F70
 detmn. of oxidation products of colupulone in, by h.p.l.c., 8F56
 detmn. of oxygen in, sensor for, 8F57
 detmn. of papain in, immunochemical, 5F51
 detmn. of phenolic carboxylic acids in, by extraction - h.p.l.c., 12F34
 detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14
 measurement of particle size of solids in, with Coulter counter, 12F33
- Beeswax**, detmn. of phenol in, 9F20
- Bekanamycin**, detmn. of, in fermentation broth, by h.p.l.c., 8E40
- Belladonna tincture**, detmn. of atropine in, by h.p.l.c., 4E13
- Bemetizide**, sepn. of, in Cardiotensin, by h.p.l.c., 12E36
- Bence-Jones protein**, identn. of, in urine, interference by cloxacillin in, 1D169
- Bencyclane**, detmn. of, in plasma, by g.c. - m.s., 10D99
- Benzazol**, detmn. of, in pharmaceutical preparations, by t.l.c., 6E46
 tungsten - catechol complex in extraction - spectrophotometric, 11E39
 electrophoresis of, indicator for, 6E2
- Benzazol hydrochloride**, detmn. of moisture in, gas-dynamic, 11E2
- Bendiocarb**, detmn. of, in maize and soil, by g.l.c., 9G25
 in soil, by differential pulse polarography, 10G26
- Bendrofluazide**, detmn. of, in tablets, in presence of nadolol, by h.p.l.c., 9E42
- Benomyl**, detmn. of, by h.p.l.c., after extraction from dermal dosimeters, 1G14
 in wettable powders, by h.p.l.c., 12G12, 12G13
- Benoxaprofen**, sepn. of isomers of, by h.p.l.c., 8E67
- Benperidol**, anodic voltammetry of, at rotating platinum or gold electrodes, 8E60
- Bentonite**, identn. of nickel in, by derivative spectrophotometry, 1H2
- Benz[c]acridine**, detmn. of, in high-protein foods, by g.c., 7F37
- Benz[a]acridine, 8,10-dimethyl-**, detmn. of, in high-protein foods, by g.c., 7F37
- Benzaldehyde**, detmn. of, in cell suspensions and tissues, by h.p.l.c., 8D100
 —, **4-dimethylamino-**, detmn. of, 2,4-dinitrotoluene in, 2A5
 —, **4-hydroxy-**, sepn. of, by t.l.c., mobile phases for, 5C45
- Benzalkonium chloride**, detmn. of, in production soln. or sewage, by flow-injection analysis, with tensametric detection, 8C66
- Benzamide**, detmn. of, in phenacetin, by differential scanning calorimetry, 1J122
 —, **2,6-dichloro-**, detmn. of, with dichlobenil, in water, by h.p.l.c., 11G26
 —, **N-ethyl-**, sepn. of derivatives of, by h.p.l.c., 3C33
- Benz[a]anthracene**, detmn. of, in soln., by laser photo-ionization, 5C53
 in vegetable oils, by t.l.c., 10F71
 sepn. of, by h.p.l.c. with two-photon ionization detector, 9J31
 —, **7,12-dimethyl-**, sepn. of hydroxylated derivatives of, by h.p.l.c., columns for, 6C32
- Benzene**, detection of, by tunable atomic-line molecular spectrometry, 7J78
 in air at hazardous-waste sites, sampler for, 5H6
 detmn. of, by g.c., after adsorption and partial desorption, 7C31
 in air, by g.c., 4H41
 by g.l.c., 3H17
 in presence of xylene, by g.s.c., 2C25
 in solvent-refined coal, by g.c., with resonance multi-photon ion detection, 10J78
 in whole blood, by g.l.c., 1D74
 detmn. of thiophene in, by cryometric analysis, 4A31
 h.p.l.c. of, stationary phases for, 9C36
 identn. of pyrolysis products of, by h.p.l.c., 7C32
 sampling of, in air, by sorption on activated carbon, 4H39
 by sorption on Tenax-GC, 2H20

Benzene—continued

- sepn. of, by g.c. on sodium and copper sulphates, 3C26
 by liquid chromatography, on porous methacrylate copolymer containing epoxy groups, 4C35
 sepn. of derivatives of, by g.l.c., retention data analysis in, 5C40
 —, **chloro-**, sepn. of, by g.c. on sodium and copper sulphates, 3C26
 —, **chloronitro-**, detmn. of isomers of, by g.l.c., stationary phases for, 5C42
 —, **di-bromo-**, detmn. of isomers of, by g.l.c., stationary phases for, 5C42
 —, **dichloro-**, detmn. of isomers of, by g.l.c., stationary phases for, 5C42
 sepn. of isomers of, by g.l.c., liquid-crystal stationary phases for, 8J58
 —, **1,2-dichloro-**, detmn. of, in air, by g.l.c., 12H36
 —, **1,3-di-isopropyl-**, sepn. of, from oxidation products, by h.p.l.c., 5C1
 —, **dinitro-**, sepn. of, by h.p.l.c. on acetylated cyclodextrin, 3C30
 —, **ethyl-**, analysis of, by proton FT n.m.r., 6J156
 detmn. of, by g.c., after sorption on Tenax, effect of ozone on, 6H29
 in toluene, by g.c., 2C26
 sepn. of, by g.c. on sodium and copper sulphates, 3C26
 —, **hexachloro-**, detmn. of, in fish oils, by g.l.c., 2F21
 in human milk, by g.c., 1D78
 —, **1-hydroxyethyl-**, detmn. of, by g.c., after sorption on Tenax, effect of ozone on, 6H29
 —, **iodobis(trifluoroacetoxy)-**, as oxidimetric titrant for potentiometry, 11A17
 —, **1,1'-methylenebis(4-isocyanato-**, detection of, in air, with sampling tubes incorporating 4-nitro-N-propylbenzylamine, 2H25
 sampling of, from air, 8H31
 —, **nitro-**, detection of, by pre-resonance Raman spectrometry, 9C33
 detmn. of, by g.c. and g.c. - m.s., 2C79
 by supercritical-fluid chromatography with FT i.r. detection, 5J28
 detmn. of aniline in, cyclic voltammetric, 11C24
 —, **nitroso-**, detmn. of, in blood, by h.p.l.c., 6D142
 —, **polychloro-**, sepn. of isomers of, by g.l.c., 11C15
- Benzene derivatives**, detmn. of, derivative u.v. spectrophotometric, 10E3
 h.p.l.c. of, 9C23
 sepn. of, by liquid chromatography, cyclodextrin phases for, 5C3
 —, **alkyl-**, detection of, in gasoline, kerosine and mixtures, by g.c. - m.s., 9C52
 detmn. of, chromatographic - m.s., 8C27
 detmn. of surfactant, in environmental samples, by t.l.c. - g.l.c. and g.c. - m.s., 6H101
 sepn. of, by capillary g.l.c., 8C28
 by g.c., liquid-crystal stationary phase in, 7C33
 by h.p.l.c., 3C27, 9J18
 by liquid chromatography, on porous methacrylate copolymer containing epoxy groups, 4C35
 by reversed-phase h.p.l.c., microcomputer-assisted retention-prediction system for, 11J32
 from other hydrocarbons, by g.s.c., column packing for, 4J69
- , **chloro-**, detmn. of, by g.l.c., 5H3
 in milk and meat, by g.l.c., 7F16
 g.l.c. of, 2C27
 —, **chloronitro-**, detmn. of residues of, by g.c. with e.c.d., 7F44
 h.p.l.c. of, stationary phases for, 9C36
- , **polymethyl-**, sepn. of, by liquid chromatography, on porous methacrylate copolymer containing epoxy groups, 4C35
- Benzene-1,3-diamine, 4-(5-bromo-2-pyridylazo)-**, as metallochromic indicator, 11A14
- Benzenesulphonamide, 5-(1-hydroxy-2-[2-(2-methoxyphenoxy)ethylamino]ethyl)-2-methyl-**, hydrochloride, detmn. of, in urine, by g.l.c., 2D92
- Benzenesulphonic acid**, h.p.l.c. of, effect of ionic surfactants on, 5C4
 —, **dodecyl-, sodium salt**, detmn. of, by h.p.l.c., 3C55
 in water, by h.p.l.c., 10H84
- Benzenesulphonic acid derivatives, alkyl-**, detmn. of, in river water, by desulphonation and g.l.c., 9H80
 by g.l.c., 8H87
 detmn. of alkali-metal salts of, by spectrophotometric titration, 7C73
 identn. of, by carbon-13 n.m.r., 8C69
- Benzenesulphonohydrazide**, detmn. of, nitrous acid in indirect spectrophotometric, 9C34
- Benzenethiols**, detmn. of, in gasoline, spectrophotometric, 9C49
- Benzene-1,3,5-triamine, 2,4,6-trinitro-**, detmn. of, by electrolytic reduction and liberation of ammonia, 12C81
- Benzhydrol, 2-methyl-**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 12E48
 in syrup, by h.p.l.c., 6E45
- Benzidine**, detmn. of, hydrogen peroxide and peroxidase in spectrophotometric, 10C33
 in aq. soln. and waste water, by spectrophotometry, 2C61
 identn. of, in snuff, by t.l.c., 4E22
 —, **3,3'-dichloro-**, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
 —, **3,3'-dimethoxy-**, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
 —, **3,3'-dimethyl-**, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
- Benzimidazole**, detmn. of, by potentiometric titration, 2C37
 —, **2-hydroxy-**, detmn. of, by potentiometric titration, 2C37
 —, **2-(2-hydroxyethyl)-**, detmn. of, by potentiometric titration, 2C37
 —, **2-(hydroxymethyl)-**, detmn. of, by potentiometric titration, 2C37
- Benzimidazole**, detmn. of, spectrometric, 2E42
 spectrophotometric, 9E50

- Benzocaine**, detmn. of, absorptiometric, 11E31
in cocaine, by h.p.l.c., 8E12
in pharmaceuticals, by i.r. spectrometry, 5E40
- Benzo[a]carbazole**, detection of, by room-temperature phosphorimetry, 9C7
- Benzo[diazepine derivatives]**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
detmn. of, by t.l.c. - i.r. spectrometry, 1E24
in biological fluids, by h.p.l.c., review, 7D67
by r.i.a., antiserum for, 10D91
in plasma, by extraction on Extrelut columns and polarography, 10D92
sepn. of, from anticonvulsants in serum, by g.l.c., 2D80
- 1,4-Benzodiazepine derivatives**, detmn. of, by hydrolysis, review, 8E62
- 1,4-Benzodiazepines**, detmn. of, in aprotic media, 4E45
- 2H-1,4-Benzodiazepin-2-one, 7-chloro-5-phenyl-1,3-dihydro-, 4-oxide**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 9E35
- Benzoestrol**, detmn. of, in tablets, by derivative spectrophotometry, 6E57
- Benzofofenac**, detmn. of metabolites of, in urine, by g.c. - m.s., 11D86
- Benzohydrazide**, detmn. of, nitrous acid in indirect spectrophotometric, 9C34
- Benzoxyhydroxamic acid, 2-salicylideneamino-**, as indicator for iron, 10B140
- , N-m-tolyl-**, detmn. of, vanadium^V in extractive - spectrophotometric, 7C40
- Benzoic acid**, detmn. of, in beverages and soy sauce, by h.p.l.c., 8F10
in cell suspensions and tissues, by h.p.l.c., 8D100
in delicatessen salads and mayonnaise, by h.p.l.c., 9F16
in food, by h.p.l.c., 5F9
by t.l.c., 11F10
in fruit juices and soft drinks, by g.l.c., 8F54
in honey, by extraction - g.l.c., 12F13
in phenacetin, by differential scanning calorimetry, 1E19
in saccharin, by h.p.l.c., 11E55
in silage, by g.l.c., 7G18
in soft drinks, by spectrophotometry, 3F26
in vegetables, by ion chromatography, 6F65
in yogurt, by h.p.l.c., 10F48
with liquid-membrane electrode, 11J06
- , 4-amino-**, detection of, by room-temperature phosphorimetry, 9C7
detmn. of, in antiseborrheic shampoo, 4E61
- , —, sodium salt**, detmn. of, in pharmaceuticals, thermometric titrimetric, 12E7
- , 4-amino-2-chloro-**, detmn. of, in chlorprocaine hydrochloride, by h.p.l.c., 9E40
- , 2-benzoyl-, derivatives**, sepn. of, by reversed-phase h.p.l.c., 9C27
- , 4-chloro-**, detmn. of, in vegetables, by ion chromatography, 6F65
- , 4-[(2,4-diaminopteridin-6-yl)methyl]methylamino-**, detmn. of, in biological materials, preparation of standards for, 4D132
- , 3,4-dihydroxy-**, sepn. of, by t.l.c., mobile phases for, 5C45
- , 3,4-dimethyl-**, detmn. of, in biological material, by ion-pair h.p.l.c., 10D128
- , 4-formyl-**, detmn. of, in terephthalic acid, by square-wave voltammetry, 7C92
- , 3-hydroxy-**, sepn. of, by t.l.c., mobile phases for, 5C45
- , 4-hydroxy-**, detmn. of, in presence of poly(vinylpyrrolidinone), spectrophotometric, 9A34
in rapeseed flour, by g.l.c., 9G10
in soft drinks, by spectrophotometry, 3F26
in soy sauce, by h.p.l.c., 3F21
- sepn. of, by h.p.l.c., 1G2
by t.l.c., mobile phases for, 5C45
- , —, alkyl esters**, detmn. of, in antacid formulations, by g.l.c., 11E56
in liquid antacid formulations, by g.l.c., 9E62
- sepn. of, by capillary h.p.l.c., 8C26
- , hydroxy-, esters**, h.p.l.c. of, stationary phases for, 9C36
- , 4-hydroxy-, esters**, detmn. of, in fatty foods, by h.p.l.c., 10F22
in food, by h.p.l.c., 5F9
in shaving cream, by h.p.l.c., 11C57
- , hydroxy-, methyl ester**, detmn. of, and its degradation products, by h.p.l.c., 10E26
- , —, propyl ester**, detmn. of, and its degradation products, by h.p.l.c., 10E26
- , 3-hydroxy-4-methoxy-**, detmn. of, in biological material, by ion-pair h.p.l.c., 10D128
- , 4-(3-hydroxypropylamino)-, ethyl ester**, detmn. of, in sunscreen preparations, by g.l.c., h.p.l.c., n.m.r. and t.l.c., 2C59
- , 2-mercapto-**, detmn. of, manganese^{III} in coulometric titrimetric, 12A7
- , 4-nitro-, hydrazide**, detmn. of, metol and cerium^{IV} in spectrophotometric, 10C41
- , thio-**, detmn. of, 2,2-diphenyl-1-picrylhydrazyl in spectrophotometric, 3C3
- , trihydroxy-**, detmn. of, in vegetables, by ion chromatography, 6F65
- Benzoic acid alkyl esters**, g.l.c. of, 6C25
- Benzoic acid derivatives, amino-**, sepn. of, by capillary h.p.l.c., 8C26
- , fluoro-**, detmn. of, in soil, by h.p.l.c., 10G9
- , hydroxy-**, sepn. of, by h.p.l.c., t.l.c. for optimization of, 10C39
by micro-column h.p.l.c., 9J16
- , nitro-**, sepn. of, by capillary h.p.l.c., 8C26
- Benzoic acid ester**, h.p.l.c. of, capacity factors of polyethylene stationary phase in, 10J26
- Benzoic acid hydrazide**, detmn. of, metol and cerium^{IV} in spectrophotometric, 10C41
- Benzoic acid sodium salt**, detmn. of, 1,4-diamino-2,3-dihydroanthraquinone as indicator in titrimetric, 3A6
in foods, non-aqueous titrimetric, 10F21
in pharmaceutical preparations, by titrimetry, 4E4
in pharmaceuticals, thermometric titrimetric, 12E7
in silage, by g.l.c., 7G18
- Benzoic anhydride**, detmn. of, in presence of benzoic acid, by g.l.c., 3C28
- Benzenophenone**, detmn. of, in soln., by laser photo-ionization, 5C53
- , 2-amino-5-chloro-**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 9E35
- Benzo[a]pyrene**, detmn. of, by fluorimetry, instrument for, 8J97
in air of newspaper printing rooms, 6H40
in atmospheric dusts, by g.c., 6H38
in exhaust gases or air-borne particulates, by g.c. - m.s., 8H33
in gasoline and light oil, by h.p.l.c., 5C69
in river water, by t.l.c. with pre-concentration, 10H83
in smoked meat products, by densitometry, 5F22
in vegetable oils, by t.l.c., 10F71
on solid adsorbents, by liquid scintillation counting, effect of destruction method on, 4C47
extraction of, from fly ash, 12B177
- sepn. of, by g.l.c., polysiloxane stationary phases for, 4C43
from its oxygenated derivatives, by t.l.c. with u.v. detection, 4C44
- , 1-nitro-**, detmn. of, by g.c. - m.s., 8C42
- , 3-nitro-**, detmn. of, by g.c. - m.s., 8C42
- , 6-nitro-**, detmn. of, by g.c. - m.s., 8C42
- Benzo[e]pyrene, 3-nitro-**, detmn. of, by g.c. - m.s., 8C42
- Benzo[f]quinoline**, detection of, by room-temperature phosphorimetry, 9C7
study of interactions of, with substrates, by i.r. and reflectance spectrometry, 3C40
- p-Benzoquinone**, detmn. of, by differential pulse polarography, 6C22
metol and sulphanilamide in spectrophotometric, 10C37
3-phenylthiazolidine-2,4-dione in spectrophotometric, 10C38
- , 2,3-dichloro-5,6-dicyano-**, detmn. of, by colorimetry, piperidine in, 4G35
metol and sulphanilamide in spectrophotometric, 10C37
- o-Benzoquinone, tetrachloro-**, detmn. of, metol and sulphanilamide in spectrophotometric, 10C37
- Benzo[t]anole**, sepn. of dicyclopentadienyl complexes of, by h.p.l.c., 5C62
- Benzo[b]triphenylene**, detmn. of, in vegetable oils, by t.l.c., 10F71
- Benzoyl chloride**, detmn. of, by g.l.c., 4C40
- , 2-chloro-**, detmn. of, by g.l.c., 4C40
- , 3-chloro-**, detmn. of, by g.l.c., 4C40
- , 4-chloro-**, detmn. of, by g.l.c., 4C40
- Benzoylecgonine**, detmn. of, in post-mortem fluids and liver, by computerized g.c. - m.s., 12D59
- Benzoyl groups**, detmn. of, in nucleosides and nucleotides, by derivatization - g.c., 9C5
- Benzoylprop-ethyl**, detmn. of, in sediments, by g.l.c., 7H69
- Benzotropine**, detmn. of, in tablets or injections, by second-derivative u.v. spectrophotometry, 7E7
- Benzy alcohol hydrochloride, α(ethylamino)methyl-3-hydroxy-**, detmn. of, by cerimetry, 4E3
- Benzyamine**, detmn. of metabolites of, in cell suspensions and tissues, by h.p.l.c., 8D100
- , dialkyl-**, detmn. of, by extraction - spectrophotometry, 1C17
- Berberine**, detection of, liquid-membrane electrodes for, 6J183
detmn. of, ion-selective electrode for, 11J137
- Bergamot oil**, sepn. of 5-methoxypsoralen and 5,7-dimethoxycoumarin from, by t.l.c., 6C48
- Bergaptol**, detmn. of, in citrus fruits, by h.p.l.c., 8F41
- Bergenin**, detmn. of, in pharmaceutical formulations, by colorimetry, 7E10
- Berkelium**, extraction of, organophosphorus compounds and amines in, 10B77
sepn. of, from actinoids and lanthanoids, 5B128
from other metals, alkylcatechol in, 5B126
- Beryllium**, detmn. of, 5-bromo-2-(salicylideneamino)phenol in spectrophotometric, 12B55
by a.a.s., effect of powdered reductants in, 4B60
by activation with heavy ions, review, 12B10
by α-particle-induced γ-ray emission, 5B10
by scattering of combination X-ray lines, 8B7
C. I. Mordant Blue 3 in spectrophotometric, 3B10
in air, by laser-induced breakdown emission spectrometry of aerosols, 3J79
in aluminium alloys, by polarography, 5B83
in aluminium and its alloys, by flameless a.a.s., 9B58
in aq. and acid soln., h.f. generator with argon plasma for, 4J124
in bone, by graphite-furnace a.a.s., 1D15
in coal ash and geological materials, by spark optical-emission spectroscopy, 5B18
in geological materials, by α-particle bombardment - prompt γ-ray spectrometry, 9B175
in presence of aluminium, by spectrophotometry with Chrome Azurol S, 4B61
in rocks, extraction - spectrophotometric, 11B31

- Beryllium**, detmn. of, —continued
 methylthymol blue in spectrophotometric, 6B53
 morin in spectrofluorimetric, 12B47
 simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
 spectrophotometric, 12B46
- Bestatin**, detmn. of, with its major metabolite, in serum, by h.p.l.c., 9D95
- Beta-HCH**, detmn. of, in human milk, by g.c., 1D78
- Betahistine mesylate**, detmn. of, spectrophotometric, 9E45
- Betaine**, detmn. of, in beet molasses, by h.p.l.c., 7F30
 in feeding-stuffs, by photometry, 2G16
 sepn. of, from choline, trimethylamine and trimethylamine oxide in marine fish, chromatographic, 9D155
- Betaines**, sepn. of, in plants, by cation-exchange h.p.l.c., 12D158
- Betamethasone**, detmn. of, in equine urine, by derivatization - g.c. - m.s., 10D77
- Betanin**, detection of, in foods, by t.l.c., 7F24
- Betaxolol**, detmn. of, in blood, urine or tissues, by g.l.c., 2D93
 in blood and urine, by g.c. - m.s., 9D80
- Bethanechol**, detmn. of, correction of experimental results in, 4A21
- Bethanidine**, detmn. of, in plasma, by h.p.l.c., 4D121
- Betula spp.**, detmn. of dammarane alcohols in, by g.l.c., 9D110
- Bevantolol**, detmn. of, in feeds, by h.p.l.c. with u.v. detection, 12G5
- Beverages**, analysis of, 11F45B
 by capillary isotachopheresis, 10F54
 by h.p.l.c., 6F67
 instrumental, 11F43B
 detmn. of alcohols in, by g.l.c., 4F62
 detmn. of aspartame in, by h.p.l.c., 2F9
 detmn. of caffeine in, by m.s., 7J105
 detmn. of dyes in, by h.p.l.c., 6F18
 detmn. of *N*-(4-ethoxyphenyl)urea in, by spectrophotometry, 3F7
 detmn. of glucose in, by flow enthalpimetry, 8F51
 detmn. of mercury in, by a.a.s., 8F52
 detmn. of paraquat in, by colorimetry after Sep-Pak C₁₈ extraction, 7D101
 detmn. of reducing sugars in, by h.p.l.c. with post-column reaction, 7C19
 detmn. of sugars and ethanol in, amperometric, 2F4
 detmn. of sulphite in, by second-derivative spectrophotometry, 5B188
 detmn. of vitamin C and isovitamin C in, by h.p.l.c. with pre-column derivatization, 11F4
 identn. of coal-tar dyes in, by t.l.c., 6F19
- , **alcoholic**, detmn. of 2-furaldehyde in, by flow-injection analysis, 3C39
 detmn. of higher alcohols in, by g.l.c., 6F77
 detmn. of phenols in matured, by g.l.c. as 2,4-dinitrophenyl ethers, 8F61
 by h.p.l.c., 8F62
 measurement of proof of, with digital density meter and programmable calculator, 7F90
- , **non-alcoholic**, detmn. of benzoic acid and 4-hydroxybenzoic acid in, by spectrophotometry, 3F26
 detmn. of benzoic and sorbic acids and saccharin in, by h.p.l.c., 8F10
 detmn. of benzoic and sorbic acids in, by g.l.c., 8F54
 detmn. of brominated vegetable oils in, by acid methanolysis - g.c., 7F81
 detmn. of caffeine in cola-type, colorimetric, 10E13
 detmn. of carbaryl and propanil in, by h.p.l.c., 7F82
 detmn. of formaldehyde in, by h.p.l.c. as its 2,4-dinitrophenylhydrazones, 5F50
 detmn. of heavy metals in cola-type, by differential pulse anodic-stripping voltammetry, automated device for, 3F25
 detmn. of iron and manganese in, by a.a.s., 12F30
 detmn. of lead and tin in, by potentiometric stripping analysis, 4F68
 detmn. of orange juice in, 5F44
 detmn. of propan-2-ol and propane-1,2-diol in, by g.c., 4F69
 detmn. of purine bases in, by g.l.c., 8E16
 detmn. of quinine in, by isotachopheresis, 9J48
 detmn. of saccharin in, by spectrophotometry, 3F23
- Biacetyl**, detmn. of, by fluorimetry, 8B75
 in butter and starter cultures, by g.c. of head-space, 9F36
- Bicyclo[2.2.1]hepta-2,5-diene**, analysis of reaction mixtures from synthesis of, chromatographic, 11C28
- Bicyclo[2.2.1]heptane, vinyl-**, sepn. of enantiomers of, liquid-chromatographic, 11C6
- Biguanides**, detmn. of, by liquid chromatography, as guanamine derivatives, 8E88
- Bile**, analysis of, screening procedure for drugs and toxic substances in, 8D32
 detection of basic drugs in, colorimetric, 10D53
 detmn. of 5-amino- and 5-acetamido-salicylic acid in, by h.p.l.c., 5D91
 detmn. of anabolic steroids in bovine, by two-dimensional t.l.c., 7D96
 detmn. of bile acids in, by isotachopheresis, 3D124
 by t.l.c., 5D159, 5D160
 by t.l.c. - spectrofluorimetry, 5D158
 detmn. of cephalosporins in, by h.p.l.c., 2D57
 detmn. of chlorpromazine and its metabolites in, by h.p.l.c., 3D54
 detmn. of cholesterol, total bile salts and phospholipids in, by t.l.c. on Chromarods, 6D181
 detmn. of cholesterol in, with enzyme electrode, 2D152
- Bile**—continued
 detmn. of chromium^{VI} in rat, by graphite-furnace a.a.s., 12D46
 detmn. of drugs in, by t.l.c. on reversed-phase bonded silica, 3E33
 detmn. of ethanol in, by g.c., 4D136
 in study of blood alcohol content, 11D109
 detmn. of galantamine in, by h.p.l.c., 2D89
 detmn. of γ -glutamyltransferase in, by r.i.a., 1D208
 detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
 detmn. of hydrochlorothiazide in, by h.p.l.c., 12D102
 detmn. of individual bile acids in, enzymic fluorimetric, 6D196
 detmn. of metabolites of butylated hydroxytoluene in, by h.p.l.c., 8D91
 detmn. of oxmetidine in, by h.p.l.c., 8D79
 detmn. of parathion and aminoparathion in, by t.l.c. and g.l.c., 3D87
 detmn. of phosphate in, by amperometry, 6D43
 detmn. of phosphatidylcholines in, by h.p.l.c., 6D180
 detmn. of phosphorus in, by potentiometric titration, 3D22
 detmn. of steroids in, by r.i.a., review, 8F25
 detmn. of sulmazole and its metabolites in, by h.p.l.c., 7D80
 detmn. of ursodeoxycholic acid in, enzymic, 8D143
 extraction of bile acids from, ion-pair, 6D197
 with Sep-Pak C₁₈ cartridges, 4D202
 sepn. of benzodiazepine glucuronides in, by h.p.l.c., 11D77
 sepn. of isomers and conjugates of bilirubin in, by h.p.l.c., 6D269
 sepn. of metabolites of xenobiotics in, by ion-exchange chromatography, 2D123
- Bile acids**, detmn. of, by g.c. - m.s. of mixed silyl derivatives, 12D136
 by g.l.c., internal standard for, 6D199
 by h.p.l.c. with enzymic post-column reactor, 9D146
 by t.l.c. - spectrofluorimetry, 5D158
 during synthesis of ursodeoxycholic acid, by h.p.l.c., 5D162
 in bile, by isotachopheresis, 3D124
 by t.l.c., 5D159, 5D160
 enzymic fluorimetric, 6D196
 in faeces, by h.p.l.c., 6D200
 in serum, by bioluminometry, 1D121
 by centrifugal analyser, with pre-inactivation of enzyme, 1D120
 by h.p.l.c., 6D198, 7D151
 by h.p.l.c. of fluorescent derivatives, 4D201
 by h.p.l.c. with immobilized enzyme reactor, 5D161
 by isotope dilution - m.s., 8D145
 enzymic - fluorimetric, 9D147
 3 α -hydroxysteroid dehydrogenase in enzymic, 8D144
 immobilized hydroxysteroid dehydrogenases in continuous-flow automated, 9D99
 interference by protein in, 4D204
 in urine, by g.l.c., 5D157
 detmn. of carboxy-groups of, by spectrophotometry, as anilides, 8C6
 detmn. of conjugated, by ion-pair h.p.l.c., 7D152
 detmn. of free and conjugated, in duodenal juice, by t.l.c., 10D150
 detmn. of primary, in serum, by bioluminescence with immobilized enzymes, 9D145
 extraction of, from serum and bile, with Sep-Pak C₁₈ cartridges, 4D202
 from urine, plasma and bile, ion-pair, 6D197
 identn. of, in faeces, by g.c. - m.s., 3D125
 sepn. of, by h.p.l.c., 3D122, 4D203
 by ion-suppression and ion-pair h.p.l.c., 3D126
 by t.l.c., 12D145
 sepn. of methyl esters of, by reversed-phase t.l.c., 6D195
- , **12 α -hydroxy-**, detmn. of, in serum, bioluminescent, 3D123
- , **3 α -hydroxy-**, detmn. of, in serum, by bioluminescence assay with immobilized enzymes, 9D150
 detmn. of free and esterified, photometric, 9D148
 detmn. of total, in serum, colorimetric - enzymic, 9D149
- Bile alcohols**, identn. of, in human urine, by g.c. - m.s., 12D118
- Bile salts**, detmn. of, in bile, by t.l.c. on Chromarods, 6D181
- Bile-salt sulphotransferase**, assay of, in hepatic cytosol and breast-tumour cytosol, by radiometry, 4D310
- Bilirubin**, detmn. of, in amniotic fluid, by spectrophotometry, 4D271
 spectrophotometric, effect of glucocorticoids on, 12D199
 in biological fluids, centrifugal analyser in, 1D184
 in blood, by front-face fluorimetry, review, 9D223
 by solid-phase reflectance spectrometry, 5D214
 in plasma, automated, 4D270
 in serum, automated spectrophotometric, 10D220
 by fast-scan square-wave voltammetry, 7D208
 interference by haemoglobin in, 1D182
 in urine, with test strips, review, 1D2
 detmn. of direct, in serum, Technicon SMAC analyser in, 4D266
 detmn. of isomers and conjugates of, by h.p.l.c., 6D269
- Bilirubin esters**, detmn. of, in serum, by h.p.l.c., 4D267
- Biochanin A**, detmn. of, in *Ononis spinosa*, by h.p.l.c., 7D203
- Biochemical analysis**, acid pressure decomposition in, review, 10A5
 activation of nylon for immobilization of biochemical molecules in, 10D9
 affinity chromatography in, 6J26
 applications of bioluminescence and chemiluminescence in, review, 11D1
 artefacts produced by toxins in, 12D7
 automated immunochemical analyser for, 12J9
 by epithelial n.a.a., boron and cadmium filters in, 10J118

Biochemical analysis—continued

- by g.c. - m.s., 11D259B
 by laser fluorimetry, review, 11J98
 by m.s., 6J161, 10A1B
 by m.s. with selected-ion or metastable-ion monitoring, review, 8D7
 by pyrolysis - m.s., geometric interpretation of spectra in, 9A36
 errors in, 9A20
 fast-atom-bombardment and field-desorption m.s. in, 1J92
 g.c. - m.s. in, 1D113
 h.p.l.c. with fluorimetric detection in, review, 11J27
 ion-selective electrodes in, review, 7J126
 laser-desorption m.s. in, review, 10J114
 profiling of groups of compounds in, review, 3D1
 statistical comparison of methods in, 1A7, 6A10
 symposium, 11D6
 t.l.c. in, review, 9J49
- Biochemical oxygen demand**, detmn. of, microbial electrodes in amperometric and potentiometric, review, 1J101
 measurement of, in water and waste water, optimization of, 12H79
 limitations of 5-day test for, 12H100
- Biological analysis**, in monitoring of occupational exposure to toxic chemicals, review, 10D5
- Biological fluids**, analysis of, *in vivo*, fibre-optical probe for fluorimetric, 8J96
 as dry aerosol, nebulizer for plasma spectrometric, 12D4
 by a.a.s., review, 6J130
 by ICP a.e.s. of dry aerosols, nebulizer for, 12D5
 electron-probe micro-, review, 6D3
 enzyme electrodes for continuous, 7D2
 review, 12D3
 assay of β -N-acetyl-D-glucosaminidase in, centrifugal analyser in, 4D325
 assay of creatine kinase MB isoenzyme in, kit for, 1D207
 assay of dopamine β -monooxygenase activity in, by h.p.l.c., 12D228
 assay of enzymes in, by inhibitor-binding assay, 12D237
 assay of neutral and acid α -glucosidases in, 3D270
 assay of ribonuclease in, spectrophotometric, 12D244
 detection of 5-hydroxytryptophan, 5-hydroxyindol-3-ylacetic acid and 5-hydroxytryptamine in, by h.p.l.c., 1D135
 detmn. of N-acetylneuraminic and pyruvic acids in, enzymic - fluorimetric, 11D210
 detmn. of adrenergic blocking agents in, 9D81
 by h.p.l.c., review, 5D77
 detmn. of albendazole in, by h.p.l.c., 10D107
 detmn. of amino acids in, by h.p.l.c., on-line pre-column derivatization with phthalaldehyde in, 4D216
 detmn. of aminohippuric acid and iohalamate in, by h.p.l.c., 11D105
 detmn. of 5-aminolaevulinic acid in, by g.l.c., 11D173
 detmn. of amidarone in, by reversed-phase ion-pair h.p.l.c., 10E35
 detmn. of analgesics in, by h.p.l.c., 6D89
 detmn. of 2,5-anhydro-D-mannitol and related compounds in, enzymic, 4D145
 detmn. of antibiotics in, by h.p.l.c., review, 3D38, 10D67
 detmn. of arsenic in, by a.a.s., 12H5
 detmn. of benzo-1,4-diazepines and metabolites in, by h.p.l.c., review, 7D67
 detmn. of bilirubin in, centrifugal analyser in, 1D184
 detmn. of catecholamines in, review, 8D152
 detmn. of chlorophacinone in, by t.l.c., 7G38
 detmn. of chlorpromazine in, by immunoassay, prep. of antibodies for, 3D53
 detmn. of cisplatin in, review, 12D101
 detmn. of cocaine and benzoylecgonine in post-mortem, by computerized g.c. - m.s., 12D59
 detmn. of 2,6-diamino-9-(2-hydroxyethoxymethyl)purine in, by r.i.a., 5D102
 detmn. of 6,7-dichloro-2-(4-fluorophenyl)-2-methyl-1-oxindan-5-yllox-yacetic acid in, by methylation - g.l.c., 9D100
 detmn. of disulfunilal in, by h.p.l.c., 7D63
 detmn. of disulfiram and citrated calcium carbimide in, review, 10D110
 detmn. of drugs and their metabolites in, review, 7D36
 detmn. of drugs in, by h.p.l.c. with flow programming, 7D90
 by metal chelate formation, review, 11D37
 by micro-bore column h.p.l.c., 6J29
 pre-analytical methodology for, review, 7D40
 review, 11D33
 detmn. of emetine and cephaeline in, by h.p.l.c., 11D43
 detmn. of ethanediol and its oxidation products in, by colorimetry and t.l.c., 9D104
 detmn. of glucose in, enzyme electrode in, 10J145
 detmn. of gold in, review, 7D22, 10D26
 detmn. of heavy metals in, 5D259B
 detmn. of histamine in, by derivatization g.c. - m.s., 11D164
 review, 5D173
 detmn. of hormones and drugs in, by luminescence immunoassay, 4D18
 detmn. of inter- α -trypsin inhibitor in, antisera for immunochemical, 4D318
 detmn. of lignocaine in, by g.c. - m.s., 4D112
 detmn. of lysergide in, by fluoro-immunoassay, 6D98
 detmn. of mercury in, by graphite-furnace a.a.s., 8D23

Biological fluids—continued

- detmn. of 4-methylimidazolidine-2-thione in, by g.l.c., 3D89
 detmn. of β_2 -microglobulin in, by nephelometry, 7D196
 detmn. of NAD⁺, adenine, AMP, ADP, ATP and adenosine diphosphoribose in, by cathodic-stripping voltammetry, 9D236
 detmn. of nitrofurantoin and chloramphenicol in, polarographic, 12E3
 detmn. of opiates in, by enzyme immunoassay and h.p.l.c., 11D42
 detmn. of organic acids in, by ion-exclusion chromatography, 6D158
 detmn. of paracetamol in, centrifugal analyser in enzymic, 7D60
 detmn. of parathyroid hormone in, by h.p.l.c., 2D183
 detmn. of 1,3,3,5,5-penta-aziridino-1,2,4,6,3,5-thiatriazadiphosphorine 1-oxide in, by g.l.c., 12D99
 detmn. of phenazone and its metabolites in, by automated h.p.l.c., 7D62
 detmn. of phosphate in, by automated colorimetry, 1D27
 detmn. of prenaloterol hydrochloride in, 2E34
 detmn. of propranolol, nadolol and prazosin in, by ion-exchange h.p.l.c., 7D77
 detmn. of prostaglandins, leukotrienes and thromboxane B₂ in, 9A1B
 detmn. of prostaglandins in, by g.c. - m.s., 10D132
 detmn. of proteins in, by zone immunoelectrophoresis, 3D196
 detmn. of ribonucleosides in, by h.p.l.c., 9D237
 detmn. of salicylamide and its metabolites in, by h.p.l.c., 2D71
 detmn. of selenium in, safe digestion method for, 7D33
 detmn. of sodium and potassium in, ion-selective electrodes in, 12D18
 detmn. of sodium in, errors in automated, 1D13
 detmn. of steroid glucosiduronates in, without preliminary hydrolysis, review, 11D149
 detmn. of steroid hormones in, h.p.l.c., review, 10D146
 detmn. of steroids in, by g.l.c. and g.l.c. - m.s., 6D184
 detmn. of sulmazole and its metabolites in, by h.p.l.c., 7D80
 detmn. of suxamethonium in, by g.c. - m.s., 11D96
 detmn. of Δ^1 -tetrahydrocannabinol in, review, 9D45
 detmn. of thiamine in, by h.p.l.c., 6D288
 detmn. of triazolam in post-mortem, by h.p.l.c., 10D80
 detmn. of trimethoprim, sulphamethoxazole and N⁴-acetylsulphamethoxazole in, by h.p.l.c., 7D87
 detmn. of tuberculostats in, review, 5D93, 11E46
 detmn. of uric acid in, amperometric, 9D240
 detmn. of vermiculin in, by h.p.l.c. and t.l.c., 4E27
 extraction of drugs from, by sorption or solvent extraction, 5D59
 Soxhlet apparatus in, 4D64
 extraction of local anaesthetics from, by adsorption on C₁₈ silica gel, 10D97
 extraction of organic compounds and drugs from, 4D63
 sepn. of amino-acids in, by h.p.l.c. of phthalaldehyde derivatives, 3D143
 sepn. of bile acids in, by reversed-phase t.l.c., 6D195
 sepn. of cholecalciferol derivatives in, by h.p.l.c., 2D224
 sepn. of corticosteroids in, by h.p.l.c., on-line extraction, evaporation and injection system for, 9D54
 sepn. of leukotrienes in, by h.p.l.c., 3D109
 sepn. of oestrogens in, by h.p.l.c. on Sephadex G-type gels, review, 2D154
- Biological materials**, analysis of, after freeze-drying, 1D5
 automated analyser for, 10D2
 by automated thermogravimetry, 1C26
 by capillary g.c., isolation and concentration techniques for, 6J60
 by direct m.s., 11D9
 by electron microscope and electron and laser micro-probe, 10A4B
 by h.p.l.c., detection in, review, 1J32
 by instrumental n.a.a., sensitivity and accuracy in, 11D7
 by laser micro-probe m.s., 5J135
 by liquid chromatography - laser desorption m.s., 9D9
 by liquid chromatography on carbon black, liquid modifiers in, 6J36
 by X-ray micro-method, aluminium - carbon films as standards for, 7D16
 by XRF, 11A6B
 sensitivity in, 12J83
 removal of fat by solvent extraction with ultrasonic agitation in, 4D4
 selectivity and sensitivity in, 6D7
 assay of aminopeptidase (cytosol) in, by phosphorimetry, 6D316
 assay of prostatic acid phosphatase in, by enzyme assay and r.i.a., 12D242
 assay of superoxide dismutase in, spectrophotometric, 8D230
 collection and storage of, 12H6
 detmn. of adrenaline, noradrenaline and dopamine in, by h.p.l.c. as dansyl derivatives, 4D208
 detmn. of adrenolytic drugs in, chromatographic, review, 11D89
 detmn. of americium, curium, plutonium and thorium in, 1H28
 detmn. of amino-acids in, by h.p.l.c. of phthalaldehyde derivatives, 6D215
 detmn. of amitriptyline and imipramine in, by g.l.c., 4D106
 detmn. of ammonium ion in, by a.a.s., 1B82
 detmn. of amphetamines in, by r.i.a., radioligands for, 5D75
 detmn. of antibiotics and methotrexate in, by assay with microbial enzymes, 4D69
 detmn. of arachidonic acid metabolites in, by t.l.c., 2D140
 detmn. of arsenic, antimony and selenium in, by ICP a.e.s., 6H62
 detmn. of arsenic compounds in, 6D47

Biological materials—continued

- detmn. of arsenic in, by differential pulse polarography, 8H62
by n.a.a., yield tracers in, 12J138
by wet digestion - a.a.s., 5D31
- detmn. of benzylamine metabolites in, by h.p.l.c., 8D100
- detmn. of bile acids in, by g.l.c., internal standard for, 6D199
- detmn. of boron, phosphorus and sulphur in, by ICP a.e.s., 10D17
- detmn. of camphochlor residues in, review, 7H5
- detmn. of carbon in, comparison of combustion methods for, 4D42
- detmn. of catecholamines, indolamines and related compounds in, by h.p.l.c., 10D157
- detmn. of chiral amines in, by t.l.c. and h.p.l.c., reagent for, 12D83
- detmn. of chlorine in, chloride-selective electrode in, 6D50
- detmn. of chlorpromazine and its metabolites in, by t.l.c., 3D52
- detmn. of cholesterol in, efficiency of hydrolysis of esters in, 10D140
- detmn. of cobalamins in, 2D226
- detmn. of cobalt in, by spectrophotometry, 7D35
- detmn. of coenzyme A in, radioisotopic, 6D275
- detmn. of copper in, spectrophotometric, 3B29
- detmn. of drugs and their metabolites in, by h.p.l.c., review, 4D68
- detmn. of drugs in, by g.l.c. with e.c.d., review, 7D41
by h.p.l.c., 1D35
by h.p.l.c. with electrochemical detection, 5D57
by time-resolved fluorimetry, 6D53
by t.l.c., screening procedure for, 4E7
by t.l.c. with transmission, reflectance and fluorescence detection, review, 4D67
diffuse reflectance in, 5E4
isotope derivatization in, review, 8D34
review, 7D39
- detmn. of eicosanoids in, review, 11D134
- detmn. of ethalfuralin in, by differential pulse polarography, 11G31
- detmn. of europium and samarium in, by fluorimetry, 5B100
- detmn. of free calcium in living cells, review, 7D24
- detmn. of glutathione in, by h.p.l.c., 2D187
- detmn. of groups of compounds in, review, 3D1
- detmn. of heavy metals in, by extraction - h.p.l.c., 12D29
- detmn. of hexoestrol in, by r.i.a., 3D72
- detmn. of inorganic and organometallic compounds in, by vaporization - plasma emission spectrometry, 6D36
- detmn. of inorganic phosphate in, colorimetric, 10D42
- detmn. of iodine in, by n.a.a., 5D35
- detmn. of isotopic composition of nitrogen in, 2D36
- detmn. of lead, cadmium and mercury in, by a.a.s., 12A8
- detmn. of lead and mercury in, reproducibility and quality control in, 1D25
- detmn. of leukotrienes and hydroxyeicosatetraenoic acids in, by h.p.l.c., 8D123
- detmn. of leukotrienes in, by h.p.l.c., improvement of peak shape and resolution in, 4D163
- detmn. of lipoxigenase in, oxygen electrode in, 4D305
- detmn. of long-chain fatty acids and cholesterol in, by g.c., 7D118
- detmn. of lycorine in, by h.p.l.c., 8D156
- detmn. of macrogols in, by g.l.c., 6D131
- detmn. of magnesium in, magnesium-26 in m.s., 12D20
- detmn. of mercury in, by a.a.s., 4D39
separative column atomizer for, 3J77
by cold-vapour a.a.s., 6B62
by electrothermal a.a.s., 2D26
by gold amalgamation - gas-phase detection, 10D33
by n.a.a., 4D25
sample digestion in, 12D31
- detmn. of metabolites of radio-labelled compounds in, 5D7
- detmn. of metals in, ashing method for voltammetric, 7F61
by ICP a.e.s., 12B15
by laser-assisted field-desorption m.s., 1B3
by XRF, effect of sample-dissolution procedures on, 1D33
cool oxygen-plasma ashing for, 5C9
- detmn. of methotrexate in, by r.i.a., 5D101
- detmn. of methotrexate metabolites in, preparation of standards for, 4D132
- detmn. of methylamines in, by g.l.c., 5D174
- detmn. of methylamphetamine and its metabolites in, 10D96
- detmn. of NADH in, by voltammetry, 9D235
- detmn. of nickel in, by n.a.a., 3D28
- detmn. of nitrogen and phosphorus compounds in, by g.l.c. with flame thermionic detection, 6J105
- detmn. of nitrogen in, by Kjeldahl digestion, indophenol blue reaction in, 1D26
- detmn. of 2',5'-oligoadenylates in, review, 9D234
- detmn. of organotin compounds in, fluorimetric, 5C39
- detmn. of oxpentifylline and its metabolites in, by t.l.c. and h.p.l.c., 8D68
- detmn. of penicillins in, by h.p.l.c., 7E11
- detmn. of phenacylidine and its metabolites in, review, 9D62
- detmn. of phosphates in, by n.m.r., 5D2
- detmn. of phosphorus in, by α -particle activation analysis, 5D29
- detmn. of platinum in, by graphite-furnace a.a.s., 4D62
- detmn. of polar lipids in, by g.c. - m.s., review, 11D137
- detmn. of polychloronaphthalenes in, 11H69

Biological materials—continued

- detmn. of reducing sugars in, by copper reduction - a.a.s., 9D108
- detmn. of selenium in, 4H2, 11D30
by a.a.s., 5D33
optimization of, 9D33
by differential pulse cathodic-stripping voltammetry, 6D48
by fluorimetry, 2D42
by isotope-dilution g.c. - m.s., 5D34
by voltammetry, 2D43
hydride generation - a.a.s. for, 2D46
- detmn. of sodium in, by instrumental n.a.a., 10D22
electrode for, 2D14
- detmn. of steroids in, by g.c. with thermionic detection, 7D137
- detmn. of strontium-90 in, by ion-exchange chromatography, 5B62
- detmn. of taurine in, by g.l.c., 11D176
- detmn. of 4'-O-tetrahydropyranyldoxorubicin in, by h.p.l.c., 8D43
- detmn. of thallium in, by differential pulse anodic-stripping voltammetry, 12B61
- detmn. of theophylline in, by liquid chromatography with short column, 1J25
- detmn. of thiocyanate in, by spectrophotometry, 6D133
- detmn. of tin in, by anodic-stripping voltammetry, 7D30
- detmn. of toxic trace elements in, open wet-ashing method in, 11D18
- detmn. of trace actinoids in, computerized surface-barrier detector for, 11D19
- detmn. of trace chromium and molybdenum in, spectrophotometric, 7F10
- detmn. of trace elements in, 6D24
by a.a.s., 12D12
by n.a.a., 4D24, 6D39
by PIXE, 11D13
sample decomposition and pre-concentration in, review, 7B1
- detmn. of trace metals in, by field-desorption m.s., review, 11D10
- detmn. of triethyl-lead in, by extraction on Extrelut and a.a.s., 8D98
- detmn. of trixyl phosphate in, by t.l.c. - spectrophotometry, 11D111
- detmn. of uranium in, by pptn. - n.a.a., 11H38
calibration source for, 8D26
- detmn. of zinc, cadmium, lead, copper, nickel and cobalt in, by voltammetry, 12D24
- detmn. of zinc and other trace elements in, by flow-injection a.a.s., 1D19
- detmn. of zirconium in, by photon-activation analysis, 11D23
- extraction of aq., with ether, apparatus for, 11J6
- extraction of pentacaine from, 11D85
- identn. of asbestos fibres in, by light and X-ray microscopy, 12H1
- identn. of α -diols derived from fatty acids in, by g.c. - m.s., 2D138
- identn. of doxylamine and mepyrmine in, 8D78
- multi-element analysis of, by PIXE and instrumental n.a.a., 7D17
- multi-element n.a.a. of, standards for, 12D16
- quality control of, systems for, 7F2
- sepn. of cAMP and its derivatives in, by h.p.l.c., 6D273
- sepn. of manganese from, chromatographic, 6D51
- speciation of metals in, by flow-injection analysis, 12J13
- Biological membranes**, analysis of, by Raman spectrometry, 6D241
- Biological tissues**, analysis of, by n.a.a., 2D9
- screening procedure for drugs and toxic substances in, 8D32
- assay of β -N-acetyl-D-glucosaminidase in, centrifugal analyser in, 4D325
- assay of S-adenosylmethionine:calmodulin(lysine) N-methyltransferase in, by radiometry, calcium-dependent hydrophobic interactions in, 4D308
- assay of amine oxidase (flavin-containing) in, spectrophotometric, 11D236
- assay of argininosuccinate synthetase in, radiochemical, 8D257
- assay of carbonate dehydratase in, by r.i.a., 8D256
- assay of carnitine palmitoyltransferase in, spectrophotometric, 7D245
- assay of catechol methyltransferase in, by h.p.l.c., 11D239
- assay of creatine kinase in, fluorimetric, 11D241
- assay of dihydroipoamide reductase (NAD⁺), citrate (si)-synthase and 3-hydroxyacyl-CoA dehydrogenase in, 11F16
- assay of dopamine β -monooxygenase activity in, by h.p.l.c., 12D228
- assay of enzyme and detmn. of proteins and DNA in, automated, 10D11
- assay of enzymes in, by inhibitor-binding assay, 12D237
- assay of flavoprotein-linked monooxygenase in, by laser-excited fluorescence, 4D298
- assay of nucleoside kinases in, 2D230
- assay of peroxidase in, interference in guaiacol test for, 12D226
- assay of purine enzymes in cells of, by h.p.l.c., 4D296
- assay of ribonuclease in, spectrophotometric, 12D244
- assay of thymidine and uridine phosphorylases in, by h.p.l.c., 3D257
- assay of xanthine oxidase in, by enzyme immunoassay, 6D291
- detection of zeronol in, of cattle and sheep, review, 5D104
- detmn. of acetaldehyde in, by h.p.l.c., 1D94
- detmn. of acetone in, by purge-and-trap g.l.c., 9D111
- detmn. of N-acetylneuraminic acid in, by spectrophotometry and fluorimetry, 3D209
- detmn. of acyl-CoA in, by g.l.c., 6D318
- detmn. of adenosine in, by r.i.a., 7D221
- detmn. of albedazole in, by h.p.l.c., 10D107

Biological tissues—continued

- detmn. of aluminium in, by electrothermal a.a.s., 12D33
 by flameless a.a.s., acid digestion method for, 6D25
 detmn. of amiodarone and de-ethylamiodarone in, by h.p.l.c., 12D91
 detmn. of amoxapine and trimipramine in, by g.l.c., 3D56
 detmn. of arsenic in, 4D51
 by hollow-cathode emission spectrometry, 8B83
 by spectrophotometry, 3D24
 external contamination in, 5D30
 detmn. of ascorbic acid in, by h.p.l.c. and colorimetry, 3D245
 detmn. of astemizole and its metabolite in animal, by h.p.l.c., 7D85
 detmn. of benzodiazepines in, stability-indicating, 3D55
 detmn. of betaxolol in, by g.l.c., 2D93
 detmn. of biogenic amines and their derivatives in, by ion-pair chromatography, 5D163
 detmn. of bioterins in, by h.p.l.c., 4D289
 detmn. of boron in, alkali-fusion method for spectrophotometric, 12D32
 detmn. of brodifacoum in, by h.p.l.c., 3D85
 detmn. of calcium in, by ion microscopy, 5G7
 detmn. of camphchlor residues in, by g.l.c., 12D109
 detmn. of catecholamines, octopamine and 5-hydroxytryptamine in, by h.p.l.c. with coulometric detection, 7D157
 detmn. of catecholamines and their metabolites in, by h.p.l.c., 6D206
 detmn. of catecholamines in, review, 8D152
 detmn. of chloramphenicol residues in, by h.p.l.c. - m.s., 7D51
 detmn. of chlorophacinone in, by t.l.c., 7G38
 detmn. of cholecystokinin in, by r.i.a., 3D170
 antibodies for, 1D148
 detmn. of choline in, enzymic, 7D165
 detmn. of chorionic gonadotrophin in, by r.i.a., 5D209
 detmn. of copper in porcine visceral, by catalytic potentiometry, 10D25
 detmn. of coumarin rodenticides in, by h.p.l.c., 5D113
 by ion-pair h.p.l.c., 5D114
 detmn. of cystamine and cysteamine in, by h.p.l.c., 9D170
 detmn. of cystathionine in, by isotachopheresis, 3D163
 detmn. of dialkyltin chlorides in, by h.p.l.c., 3D81
 detmn. of 2,4-dinitrophenol in, by g.c. - m.s., 2D120
 detmn. of disulphides in, by a.a.s. of copper from bound dye, 3D10
 detmn. of DNA in, by fluorimetry, 1D191
 by spectrophotometry, 1D190
 detmn. of dolichols and dolichyl phosphates in, by t.l.c. and h.p.l.c., 3D98
 detmn. of dyes, pigments and PCB in, for ecological and toxicological assessment, review, 11H2
 detmn. of elements in, by secondary-ion m.s., 5D12
 detmn. of ethanediol and its oxidation products in, by colorimetry and t.l.c., 9D104
 detmn. of ethanediol in, review, 6D137
 detmn. of ethanol and NAD in, by enzymic reaction and spectrophotometry, 4D137
 detmn. of ethioheptazine in, by g.l.c., 6D85
 detmn. of gold in, by flameless a.a.s., 4D31
 review, 7D22
 detmn. of heavy metals in, by a.a.s., 3D13
 detmn. of hexoestrol in, by r.i.a., 3D72
 detmn. of histamine in, by automated continuous-flow fluorimetry, 3D136
 detmn. of D-3-hydroxybutyrate in, enzymic - spectrophotometric, 1D98
 detmn. of inorganic and organic mercury in, of marine and land animals, 6D37
 detmn. of ivermectin in bovine, by m.s. - m.s., 11D102
 detmn. of Krebs-cycle acids in, by g.l.c. - m.s., 4D156
 detmn. of leucine-enkephalin in, by m.s., 1D149
 detmn. of light elements in, by X-ray analysis with α -particle beams, 12D15
 detmn. of lignocaine in, by g.c. - m.s., 4D112
 detmn. of lipids in, by t.l.c., 12D129
 detmn. of metabolites in, by proton n.m.r., for estimation of post-mortem time, 6D157
 detmn. of metallothionein in, by cadmium-109 binding, 7D183
 detmn. of metals in, by a.e.s., optimization of volatilization in, 5D37
 detmn. of 2-(5-methoxyindol-3-yl)ethanol in, by r.i.a., 9D165
 detmn. of 4-methylimidazolidine-2-thione in, by g.l.c., 3D89
 detmn. of 5'-methylthioadenosine in, by h.p.l.c., 5D224
 detmn. of methyltin compounds in, by g.l.c., 12D107
 detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
 detmn. of nitrogen, hydrogen and fat in, estimation of total body contents from, 10D41
 detmn. of nitrogen in, by combustion and g.c., 11D26
 detmn. of organic acids in cells of, by g.l.c., 6D160
 detmn. of organochlorine insecticide residues, PCB and heavy metals in, by g.l.c. and a.a.s., 12D108
 detmn. of organochlorine residues in avian, by g.l.c., 6D144
 detmn. of oxygen in, sensor for, 9D31
 detmn. of parathion and aminoparathion in, by t.l.c. and g.l.c., 3D87
 detmn. of parathyroid hormone in, by h.p.l.c., 2D183
 detmn. of PCB in marine, by g.c. - m.s. with selected-ion monitoring, 5D110
 detmn. of peptides in, by field-desorption m.s., 3D166

Biological tissues—continued

- detmn. of pesticides and phenols in, by g.c., 10D112
 detmn. of phenethylamine in, by g.c. - m.s., 1D136
 detmn. of phenobarbitone, phenytoin and *p*-hydroxyphenytoin in, by h.p.l.c., 10D82
 detmn. of phosphine in, by g.l.c., 3D88
 detmn. of phospho-L-arginine and ATP in, enzymic - bioluminescence method for, 6D219
 detmn. of phospholipids in, by h.p.l.c., 7D134
 detmn. of piroxicam in, by h.p.l.c., 2D88
 detmn. of platinum in, by a.a.s., removal of interference by nitrate in, 9D37
 detmn. of polyamines in, by ion-exchange chromatography, 4D212
 detmn. of polychlorinated dibenzodioxins and polychlorinated dibenzofurans in, review, 4H4
 detmn. of polychlorinated dibenzo-*p*-dioxins in, by g.c. - m.s., 12C38
 detmn. of polychlorinated dioxins and furans in, by isomer-specific techniques, review, 11H3
 detmn. of propranolol in, by r.i.a., 7D78
 detmn. of prostaglandin E₂ and its main metabolite in, by h.p.l.c., 6D169
 detmn. of prostaglandins and thromboxane in, by g.c. - m.s., 6D166
 detmn. of protocathechuic and homoprotocatechuic acids in, spectrophotometric, 4D160
 detmn. of selenium in, by extraction - photometry, 6D49
 detmn. of sex hormones in, by r.i.a., review, 12D135
 detmn. of short-chain acylcarnitines in, by radioisotopic exchange, 6D225
 detmn. of steroid hormones in, h.p.l.c., review, 10D146
 detmn. of steroids in, by r.i.a., review, 8F25
 detmn. of steroids in tumour, by g.c. - m.s., review, 8D132
 detmn. of stilboestrol in, by h.p.l.c., fluorimetric detection in, 2F17
 detmn. of sulphadimidine in bovine and porcine, by g.c. - m.s., 10F14
 detmn. of suxamethonium in, by g.c. - m.s., 11D96
 by t.l.c., g.l.c. and g.c. - m.s., 5D86
 detmn. of taurine in, fluorimetric, 8D169
 detmn. of Δ^1 -tetrahydrocannabinol in, review, 9D45
 detmn. of thiopentone in, by h.p.l.c., 3D64
 detmn. of tissue plasminogen activator in, by enzyme immunoassay, 7D197
 detmn. of titanium in, by ICP a.e.s., 12D39
 detmn. of α -tocopherol in rat, by g.c. - m.s., 10D244
 detmn. of total platinum in, by differential pulse polarography, 5D39
 detmn. of total water in human, by m.s., 7D18
 detmn. of trace elements in, 11J84
 detmn. of triazolam in post-mortem, by h.p.l.c., 10D80
 detmn. of trimethyl-lysine in, by h.p.l.c., 11D174
 detmn. of uranium and plutonium isotopes in, by α -spectrometry, 4D41
 detmn. of uranium in, by m.s., 2D28
 detmn. of Vinca alkaloids in tumour, by h.p.l.c., 6D55
 detmn. of vitamin B₆ compounds in, by h.p.l.c., 11D225
 detmn. of whole-body nitrogen and protein turnover in, *in vivo*, by n.a.a., 10D39
 extraction of caesium-137 and strontium-90 from, with cobalt dicarbollide, 5D18
 extraction of heptacaine from, 4D113
 extraction of PCB from monkey, solvents for, 5D111
 extraction of petroleum hydrocarbons from, 8H90
 extraction of steroids from, by solvent and gel extraction, 6D187
 identn. of fatty acids in bovine, by g.c., 1D104
 identn. of metabolites of hexazinone in, by m.s., 7D105
 measurement of pH of, fibre-optic device for, 2D11
 sepn. of hydrocarbons in, by h.p.l.c., 7H55
 sepn. of lipids in, by ion exchange and t.l.c., 2D143
 sepn. of metallothioneins in, by h.p.l.c. - a.a.s., gel-permeation, anion-exchange and reversed-phase columns for, 8D177
 sepn. of peptide hormones in, by h.p.l.c., 8D180
 sepn. of phospholipids in, by h.p.l.c., 6D178
 sepn. of steroids in, by h.p.l.c., 8D134
Bioluminescence, in biochemical and pharmaceutical analysis, review, 11D1
Bioluminescence analysis, theory and applications of, review, 5A3
Biopolymers, analysis of, by field-flow fractionation, 6J14
 by h.p.l.c., biospecific affinity chromatography and electrophoresis, 6D18
 sepn. of, by h.p.l.c. on agarose gels, review, 9J22
Biopterin, detmn. of, in urine, by h.p.l.c., 9D248
 by polarization fluoro-immunoassay, 12D223
 detmn. of reduced and oxidized forms of, in murine tissues, by h.p.l.c., 4D289
Biotechnology, new journal, 4D338B
Biotinidase, assay of, in serum, leucocytes or fibroblasts, radiochemical, 8D245
 detmn. of, in blood, by colorimetry, 8D246
Biote, detmn. of iron^{II} oxide, fluorine and water-plus in, by micro-probe, regression equations for, 10B173
Biphenyl, detmn. of, in citrus fruits, 8F43
 by t.l.c., 7G31
 in liquid crystals, by i.r. spectrophotometry, 4C102
 —, **4-nitro**-, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102

Biphenyl—continued

- , 3,3',4,4'-tetrachloro-, detmn. of, in rat tissues and body fluids, by g.l.c., 5D109
- Biphenyl-4-amine**, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
- Biphenyl-4-carbonitrile, 4'-amino-**, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- , 4'-hydroxy-, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- , 2'-nitro-, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- , 4'-nitro-, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- Biphenyl-3-carboxylic acid, 4'-pentyl-**, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- Biphenyl derivatives**, detection of, in fish, by bio-assay, 4F34
- , alkyl, sepn. of, by g.l.c., 10C30
- , bromo-, detmn. of, in serum, by g.l.c., quality control of, 8D93
- , bromochloro-, detmn. of, in fire-retardant materials, by g.c. - m.s., 11C80
- , chloro-, detmn. of, by capillary g.c., 9J64
 - by g.c. - m.s., 5C41
 - by g.l.c., 5H3
 - in avian tissues, by g.l.c., 6D144
 - in dyes and pigments, for ecological and toxicological assessment, review, 11H2
 - in edible fats, clean-up method for, 5F33
 - in eggs, by g.c., 4D142
 - in environmental materials, by g.c. - m.s., 4H5
 - by g.c. - m.s. with limited-mass scan, 9H76
 - in fish, by g.c., 1D73
 - by g.l.c., 2F19
 - in fish oils, by g.l.c., 2F21
 - in herring oil, by g.l.c., inter-laboratory calibration in, 8F32
 - in human milk, by g.c., 1D78
 - in human milk and serum and infant feed, by extraction - g.c., 10D113
 - in marine animals, by g.c. - m.s. with selected-ion monitoring, 5D110
 - in oils, by g.c., statistical model for, 1A10
 - in paper and paper board, g.c., 11C65
 - in process and waste liquids, by g.c. - m.s., 5C117
 - in rain, automated sampler for, 9H66
 - in sediments, by g.c., 6H87
 - by pyrolysis g.c. - m.s., 8H83
 - in serum, by g.l.c., 2D118, 8D101
 - quality control of, 8D93
 - by g.l.c. with e.c.d., 8D102
 - in sewage and sewage sludge, by g.c. - m.s., 7H76
 - in sewage sludge, by g.c., 6H103
 - in silage and cod-liver oil, 11G18
 - in soil, water, oil and sediment, by capillary-column g.c., 11G36
 - in technical formulations, by g.l.c. and g.c. - m.s., 2C80
 - in water, by g.c. - m.s., 3H65
 - in water and urine, by room-temp. phosphorescence, 7H68
- detmn. of non-polar, in human milk, by high-resolution g.c., 12D106
- detmn. of polychlorinated dioxins and furans in, by isomer-specific techniques, review, 11H3
- detmn. of residues of, in biota, by g.l.c., 12D108
- extraction of, from monkey milk and tissues, 5D111
- identn. of, in sediments and soils, 4H71
- recovery of, after adsorption on activated carbon, 8H84
- sepn. of, by g.l.c., retention index standards for, 4J53
- , hydroxy-, fluorescence of, effect of micelles on, 9C6
- Biphenyl-2,2'-diol**, detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- Biphenylene, tetrabromo-**, detmn. of, in fire-retardant materials, by g.c. - m.s., 11C80
- Biphenyl-2-ol**, detmn. of, in fatty foods, by h.p.l.c., 10F22
- extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
- Biphenyl-4-ol**, detection of, by room-temperature phosphorimetry, 9C7
- detmn. of, in liquid crystals, by i.r. spectrophotometry, 4C102
- identn. of, in mixtures with other aromatic hydroxy-compounds, by room-temperature phosphorescence and fluorescence, 12C26
- Biphenylol, chloro-**, identn. of, in hypochlorite-treated water, by g.l.c. and m.s., 2H58
- 2,2'-Bipyridyl**, titration of, coulometric generation of protons in, 4C25
- 3,4'-Bipyridyl-5-carbonitrile, 1,6-dihydro-2-methyl-6-oxo-**, detmn. of, in blood plasma or urine, by h.p.l.c., 4D117
- Biscuits**, analysis of, by near-i.r. spectrophotometry, 6F32
- detmn. of non-starch polysaccharides in rye, 6F12
- Bis(diphenylphosphinothioyl) disulphide**, as reagent for coulometry, 7A9
- Bismuth**, detmn. of, by a.e.s., source in, 5J94
 - by a.f.s., hydride-generation in, 6B118
 - by a.f.s. with tungsten-spiral atomizer, 10J102
 - by anodic-stripping voltammetry, 4B123
 - by coulometric titration with EDTA, 4B20
 - by flame a.a.s. with twin-spray injection system, 11B95
 - by ICP a.e.s., with hydride generation, 5J102
 - by n.a.a., measurement of characteristic X-rays in, 10B58
 - by polarography, 7B90
 - by potentiometry, EDTA and ion-selective electrode in, 4B29

Bismuth, detmn. of.—continued

- by pptn. and iodine-amplification titration, 5B176
- by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
- 2-(3,5-dibromo-2-pyridylazo)-5-dimethylaminophenol in spectrophotometric, 9B109
- electrode in direct potentiometric and potentiometric titrimetric, 9B110
- in alloys, by voltammetry, 10B104
- extraction - spectrophotometric, 9B108
- in bismuth indium telluride, by complexometry, 4B202
- in carbon fibres, by anodic-stripping voltammetry, 8B26
- in catalysts, polarographic, 9B183
- in geological materials, by hydride-generation a.a.s., 8B85
- in glass, by a.a.s. with direct furnace volatilization, 8B134
- in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in lead, by a.a.s. after pptn. with iron^{III} hydroxide, 10B88
- in lead concentrates, by oscillopolarography, 7B80
- by photometry, 3B64
- in nickel and nickel-based alloys, by differential pulse anodic-stripping voltammetry, 9B157
- in phosphorus, by a.a.s., hydride-generating system for, 5B169
- in presence of cadmium, by amperometry, 5B17
- in presence of carbon and iridium, chemical - absorptiometric, 10B14
- in presence of copper, extraction - spectrophotometric, calculation for, 10B31
- in river water, by h.p.l.c., 7H32
- in sea-water, by stripping voltammetry, 11H45
- in silver nitrate, by a.a.s. after sepn. from silver, 9B29
- in steel, by a.a.s., 5B232
- in steel and cast iron, by a.a.s., 8B121
- in steel and iron, by a.a.s., 1B130
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
- ion-selective electrode for, 6J180
- semi-methylxlenol blue in spectrophotometric, 3B106
- spectrophotometric, review, 3B18
- extraction of, from hydrochloric acid medium, by long-chain amines, 11B96
- with dithiocarbamates, 6B22
- luminescence of complex compounds of, 7B16
- sepn. of, by h.p.l.c., as xanthate complexes, 4B24
- by ion flotation, 4B17
- sepn. of trace, hydrous lead dioxide as sorbent for, 11B97
- Bismuth-212**, detmn. of, in air, by α -particle counting, computer program for, 9H13
- Bismuth-214**, detmn. of, in air, by α -particle counting, computer program for, 9H13
- Bismuth aluminate**, detmn. of bismuth in, electrode in direct potentiometric and potentiometric titrimetric, 9B110
- Bismuth compounds**, g.c. of organic, storage and sample-introduction systems for, 10C3
- Bismuth indium telluride**, detmn. of bismuth and indium in, by complexometry, 4B202
- Bismuth molybdate**, analysis of, by ion-beam techniques, 9B185
- Bismuth nitrate**, detmn. of bismuth in, electrode in direct potentiometric and potentiometric titrimetric, 9B110
- Bismuth oxide**, detmn. of silver in, by a.a.s., 4B54
- Bitumen**, detmn. of malthenes and asphaltens in, by t.l.c. on Chromarods, 1C22
- Blackcurrants**, sepn. of anthocyanins of, by droplet counter-current chromatography, 9D221
- Bleomycin**, detmn. of, by enzyme immunoassay, 5D100
- Blood**, analysis of, by front-face fluorimetry, review, 9D223
- effect of ascorbic acid on, review, 5D8
- screening procedure for drugs and toxic substances in, 8D32
- with Ektachem 400 Analyzer, 6D9
- analysis of capillary, cell for, 9D7
- analysis of gases in, instrumentation for, 1D24
- review, 8D1
- analysis of lipids of, by high-resolution n.m.r., 10F68
- assay of aryl sulphotransferase in, 6D298
- assay of aspartate aminotransferase in, pyridoxal 5-phosphate in automated, 8D240
- assay of cholinesterase in, with automatic analyser, 3D274
- assay of creatine kinase in porcine, 5D238
- assay of glutathione peroxidase in, of cattle and pigs, by spectrophotometry, 11D234
- assay of lactate dehydrogenase in, amperometric, 10D248
- assay of lactoyl-glutathione lyase in, 8D255
- assay of uroporphyrinogen I synthase in dried, by fluorimetry, 10D262
- detection of, in urine, test strips for, 4D19
- detection of abnormal haemoglobins in, Isolab Fast Haemoglobin Test System for, 12D207
- detection of cannabinoids in, by g.c. - m.s., 5D52
- detection of cysteine and derivatives in, by derivatization - h.p.l.c., 7D176
- detection of diprophen and thiophenamil in, by t.l.c., 5D80

Blood—continued

- detection of foetal haemoglobin in stains of, by thin-layer immunoassay, 12D202
 detection of polymorphic proteins in stains of, by isoelectric focusing, silver stain for, 7D190
 detection of superoxide dismutase in salmon or trout, by isoelectric focusing, 1D197
 detection of trenbolone acetate in, review, 5D103
 detmn. of, in urine, with test strips, review, 1D2
 detmn. of acetaldehyde in, by g.c., sample preparation for, 7D116
 by h.p.l.c., 1D94
 inhibition of ethanol interference in, 7D117
 detmn. of adenosine in, by r.i.a., 7D221
 detmn. of alcohols in, by g.l.c., 2D116
 detmn. of aluminium in, by extraction - graphite-furnace a.a.s., 10D35
 by laser-atomic photo-ionization, 4J128
 detmn. of amino-acids in, automated, 7D167
 detmn. of aminoglycoside antibiotics in, by pptn. and spectrophotometry, 8E37
 spectrophotometric, 12D69
 detmn. of ammonia in, reflectometric, 9D30
 detmn. of amoxapine and trimipramine in, by g.l.c., 3D56
 detmn. of amoxycillin in, 8E30
 detmn. of ampicillin in, by spectrophotometry, 3D39
 detmn. of *cis*- and *trans*-1,3-dichloropropene in, by g.l.c. and g.c. - m.s., 2D124
 detmn. of anthracene-9-carboxylic acid in, by fluorimetry, 5D108
 detmn. of ascorbic acid in, by h.p.l.c. of quinoxaline derivative, 8D225
 detmn. of aspirin and salicylic acid in, by h.p.l.c., 7D64
 detmn. of ATP in, by h.p.l.c., 10D237
 detmn. of benzene and phenolic compounds in, by g.l.c., 1D74
 detmn. of benzodiazepines in, stability-indicating, 3D55
 detmn. of benzoylcegonine in, by r.i.a., 9D40
 detmn. of betaxolol in, by g.c. - m.s., 9D80
 by g.l.c., 2D93
 detmn. of bilirubin, cholesterol and creatinine in, by solid-phase reflectance spectrometry, 5D214
 detmn. of biotinidase in, by colorimetry, 8D246
 detmn. of bis-(2-ethylhexyl) phthalate in, after storage in PVC bags, by h.p.l.c., 8D96
 detmn. of cadmium, lead and thallium in, by isotope dilution - m.s., 12D27
 detmn. of cadmium and lead in, by a.a.s., automation of, 9D29
 by ICP a.e.s., sample treatment for, 12D30
 detmn. of cadmium in, by a.a.s., 6D35
 detmn. of calcium in, effects of sample collection and storage conditions on, 12D21
 detmn. of calcium ions in, electrode for, 10D28
 detmn. of captopril and its disulphide metabolites in, by derivatization - g.c., 10D103
 detmn. of carbon dioxide, bicarbonate and gases in, heparin as source of error in, 4D44
 detmn. of carbon dioxide and bicarbonate in, effect of heparin in, 2D30
 source of error in, 2D31
 detmn. of carbon-13-labelled lactate in, by g.c. - m.s., 12D123
 detmn. of carbonylhaemoglobin in, automated, 10D227
 by spectrophotometry, 4D274
 indirect, from *p*CO of alveolar air, 10D226
 detmn. of cartap in, by colorimetry or fluorimetry, 3H66
 detmn. of 9-chloro-7-(2-chlorophenyl)-5H-pyrimido-[5,4-*d*][2]benzazepine and its 5-hydroxy-metabolite in, by g.l.c. and h.p.l.c., 2D77
 detmn. of 3-chloropropene in, by g.l.c., 6D135
 detmn. of chloroquine and its major metabolite in, by h.p.l.c., 5D96
 detmn. of chlorpromazine and its metabolites in, by h.p.l.c., 3D54
 detmn. of chlorpromazine in, by anodic-stripping voltammetry, 5E37
 detmn. of chlorthalidone in, by h.p.l.c., 10D108
 detmn. of clomipramine, desmethyldomipramine, caffeine and zomepirac in, by g.l.c., t.l.c. and h.p.l.c., 3D58
 detmn. of cocaine and benzoylcegonine in post-mortem, by computerized g.c. - m.s., 12D59
 detmn. of cocaine in, by g.l.c., stability of samples for, 4D73
 detmn. of copper in, by a.a.s. after extraction with dibenzo-24-crown-8, 10D24
 detmn. of cyanide in, by g.l.c., 5D26
 detmn. of cyclizine in, by g.l.c., 11D98
 detmn. of cyclosporin A in, by h.p.l.c., 9D96
 detmn. of desipramine in, by h.p.l.c., 5D67
 detmn. of diamorphine in, by t.l.c., 1D40
 detmn. of digoxin in, by enzyme immunoassay, 6D59
 detmn. of 2,3-diphosphoglycerate in, by bioluminescence, 2D139
 detmn. of 2,6-disubstituted anilines in, by g.l.c., 3D84
 detmn. of doxepin and its metabolites in, by t.l.c. and g.l.c., 3D57
 detmn. of drugs and hormones in, in presence of Fluosol-DA, by r.i.a., 1D6
 detmn. of drugs and metabolites in, systematic, 12D55
 detmn. of drugs in, 7D37
 by automated fluorimetry or photometry, 4J10
 by spectrometry or g.c., 1D38
 effect of evacuated collection tubes in, 6D52
 interference by fluorescein in automated, 6D54

Blood—continued

- detmn. of elements in, by PIXE, 4H53
 detmn. of enantiomers of methoin and its *N*-demethylated metabolite in, by g.l.c., 12D76
 detmn. of ethambutol, ethionamide and rifampicin in, by ion-pair extraction - spectrophotometry, 4E58
 detmn. of ethanediol in, by g.c., 6D138
 by oxidation - reduction - g.c., 10D116
 review, 6D137
 detmn. of ethanol in, by EMIT-st assay, errors in, 12D105
 by g.c., 4D136
 by head-space g.l.c. and densitometry, standards for, 7D99
 effect of long-term storage on, 11D108
 effect of storage on, 6D134
 photometric, 11D107
 detmn. of etoposide and teniposide in, by h.p.l.c., 4D128
 detmn. of folates in, by h.p.l.c., 5D230
 detmn. of folic acid in, microbiological and radio-immunological, 7D231
 detmn. of formaldehyde in, by radiometry with carbon-14-labelled dimedone, 2D132
 detmn. of fructose in, colorimetric, 10D119
 detmn. of galactose and phenylalanine in dried, automated continuous-flow, 9D183
 detmn. of galactose in, by spectrophotometry, 4D149
 detmn. of gases in, temp.-insensitivity of non-aqueous controls in, 4D53, 4D54
 detmn. of gases in and pH of, temp. correction in, review, 6D27
 detmn. of glucose in, by automatic analysers, 1D91
 enzyme electrode for, 10D120
 ferrocene derivative as electron-transfer mediator in, 12J164
 in presence of paracetamol, 7D108
 interference by cresol in, 1D92
 with immobilized enzymes, 5D117
 with YSI Analyzer, interference by phenolic preservatives in, 2D125
 detmn. of glucosylhaemoglobin in, spectrophotometric, 9D230
 detmn. of glycyl trinitrate in, kinetic, 6E48
 detmn. of glycosylated haemoglobin in, 9D231
 after removal of labile fraction, 8D214
 by affinity chromatography, 1D187, 12D204
 by automated h.p.l.c., 10D230
 by column chromatography, colorimetry and electrophoresis, 4D277
 by various methods, effect of sample storage on, 1D188
 collection tubes for, 1D189
 liquid-chromatographic, 12D206
 photometric, 12D205
 detmn. of gold in, by flameless a.a.s., 4D31
 detmn. of haemoglobin A₁ in, by column chromatography, 9D228
 detmn. of haemoglobin A_{1c} in, by h.p.l.c., 3D221
 by liquid chromatography, 2D216
 detmn. of haemoglobin derivatives in, spectrophotometric, 10D225
 detmn. of haemoglobin F in, by electrophoresis, 9D227
 detmn. of haemoglobin in, by spectrophotometry, 2D215
 graded haemagglutination inhibition in, 1D185
 detmn. of haemoglobins in foetal, correction factors for IL 282
 CO-Oximeter in, 2D213, 2D214
 detmn. of heavy metals in, by porous-layer electrochemistry, 7D21
 detmn. of hexachlorobuta-1,3-diene in, by g.l.c., 7D104
 detmn. of histamine in, by automated continuous-flow fluorimetry, 3D136
 by h.p.l.c. - fluorimetry, 7D162
 detmn. of hydralazine in, by h.p.l.c., 2D96
 detmn. of 3-hydroxybutyrate in, automated kinetic, 10D125
 detmn. of D-3-hydroxybutyrate in, enzymic - spectrophotometric, 1D98
 detmn. of (2*R*,4*R*)-2-(2-hydroxyphenyl)-3-(3-mercaptopropionyl)thiazolidine-4-carboxylic acid in, by h.p.l.c., 9D88
 detmn. of 17 α -hydroxyprogesterone in dried, by fluorescence enzyme immunoassay, 6D194
 detmn. of 5-hydroxytryptamine in, by h.p.l.c. with electrochemical detection, 10D161
 detmn. of immunoglobulin E in, by r.i.a., 2D197
 detmn. of ionic calcium, potassium and sodium and pH of, integrated-circuit sensor in, 8D18
 detmn. of ionized calcium in, automated, 6D32
 automated analysers for, 6D33
 detmn. of isoniazid and acetyloniazid in, by h.p.l.c., 6D119
 detmn. of labetalol in, by h.p.l.c., 8D65
 detmn. of lactate in, enzymic - fluorimetric, 7D123
 detmn. of L-(+)-lactate in, spectrophotometer for, 5D126
 detmn. of lead in, by a.a.s., 5D27
 by a.a.s. and voltammetry, 12D38
 by a.a.s. with second-surface atomization, 9J90
 by electrothermal a.a.s., 2D32
 by electrothermal a.a.s. with pyrometric feed-back, 9J95
 by flame a.a.s., 2D33
 by flame a.f.s., 6D42
 photo-induced haemolysis in, 7D32
 detmn. of lignocaine in, by g.l.c., 2D85
 by h.p.l.c., 2D86
 detmn. of malathion in, by g.c., 10D115

Blood—continued

- detmn. of melfloquine in, by h.p.l.c., 6D120
 detmn. of metals in, by voltammetry or a.a.s., sample pre-treatment in, 4D26
 contamination from collection tubes in, 6D23
 detmn. of methadone in, by g.l.c., 2D70
 by r.i.a., 3D51
 detmn. of methanol in, spectrophotometric, 11H24
 detmn. of methohexitone in, by g.l.c. of pentafluorobenzyl derivative, 7D73
 detmn. of methotrexate in, by h.p.l.c. with coulometric detection, 2D109
 detmn. of morphine in post-mortem, by g.l.c., 5D46
 detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
 detmn. of naloxone in, by h.p.l.c., 7D61
 detmn. of nicotine, caffeine and malathion in, 7D38
 detmn. of nitrate in, by g.c. with f.i.d. or thermal energy analyser, 8D29
 detmn. of nitrobenzimidazole and g.c., 11D26
 detmn. of 5-nitroimidazole antimicrobials in, by g.l.c., 9D91
 detmn. of 4-nitrophenol conjugates in, by h.p.l.c., after poisoning by parathion, 11D113
 detmn. of nitrosobenzene and phenylhydroxylamine in, by h.p.l.c., 6D142
 detmn. of nitrosopiperazines in, by g.l.c., 5D94
 detmn. of [¹⁵N]nitrite in, by g.c. - m.s., 11D25
 detmn. of novel anticancer thiaziazadiphosphorine derivative in, by g.l.c., 9D94
 detmn. of occult, in faeces, by spectrophotometry, 7D11
 detmn. of opiates in, by thin-layer immunoassay, 5D44
 detmn. of organic mercury in, by sodium tetrahydroborate reduction, 9D25
 detmn. of oxygen in, by amperometry, 2D40
 electrode for, 3D216
 sensor for, 9D31
 detmn. of paracetamol in, by h.p.l.c., 5E32
 detmn. of paraquat and diquat in, by g.c., 9D105
 detmn. of paraquat in, by colorimetry after Sep-Pak C₁₈ extraction, 7D101
 detmn. of parathion and aminoparathion in, by t.l.c. and g.l.c., 3D87
 detmn. of penicillamine in, by h.p.l.c., 2D114
 detmn. of pesticides and phenols in, by g.c., 10D112
 detmn. of pH and gases in, control materials for, 9D17
 detmn. of phenobarbitone, phenytoin and *p*-hydroxyphenytoin in, by h.p.l.c., 10D82
 detmn. of phosphine in, by g.l.c., 3D88
 detmn. of polyamines in, by g.l.c., 6D202
 detmn. of potassium in, by direct potentiometry, errors in use of valinomycin electrodes for, 4D29
 detmn. of progesterone in, by r.i.a., pre-treatment effect on, 5D153
 detmn. of progesterone to testosterone ratio in stains of, for sex identn., 6D186
 detmn. of protirelin in, by r.i.a., 8D184
 detmn. of protoporphyrin in, by ethyl acetate - acetic acid extraction, 10D222
 detmn. of pteridines and sepiapterins in, by h.p.l.c., 3D137
 detmn. of quinine and strychnine in, by spectrophotometry, 5D49
 detmn. of retinoids in, by h.p.l.c., 8D220
 detmn. of salicylate in, spectrophotometric, 3D49
 detmn. of selenium and glutathione peroxidase in, 8D30
 detmn. of selenium in, by flameless a.a.s., 2D44, 2D45
 by isotope-dilution g.c. - m.s., 5D34
 detmn. of selenium in equine, by hydride generation - a.a.s., 5D32
 detmn. of serine in, by fluorimetry, after oxidation and complexation with acetylacetone, 4D221
 detmn. of sodium, potassium and calcium in, ion-selective electrodes in, review, 5D17
 detmn. of sodium and potassium in, by ion-selective electrode, 5J171, 10D19
 potentiometric, 10D21
 with microprocessor-controlled ion-selective electrodes, 7D19
 detmn. of sodium in, by potentiometry, 8D17
 detmn. of Tanax constituents in, by t.l.c. and spectrophotometry, 8D99
 detmn. of tetrahydrocannabinol in, by r.i.a., 12D67
 detmn. of Δ⁹-tetrahydrocannabinol in, by r.i.a., 10D64
 detmn. of Δ⁹-tetrahydrocannabinol metabolites in, by h.p.l.c. - r.i.a., 10D65
 detmn. of thallium in, by a.a.s., 12D35
 detmn. of theophylline in, by fluoro-immunoassay, 1D43
 by h.p.l.c., 5D84
 detmn. of theophylline in dried spots of, by fluoro-immunoassay, 9D41
 detmn. of thiamine and its phosphates in, by liquid chromatography, 7D229
 detmn. of thiamine in, by h.p.l.c., 5E29, 6D288
 detmn. of thiopentone in, by h.p.l.c., 3D64
 detmn. of thyrotrophin in, of new-born babies, by r.i.a., quality control of, 6D246
 detmn. of thyroxine-binding globulin in, by r.i.a., 3D198
 detmn. of tin in, by anodic-stripping voltammetry, 7D30
 detmn. of toluene in, by g.c., 1D72
 detmn. of trace elements in, by a.a.s., 12D12

Blood, detmn. of trace elements in,—continued

- by a.e.s., 2D8
 by instrumental n.a.a., 8D13
 by n.a.a., 4D24
 by photo-ionization spectroscopy, 4J141
 detmn. of transferrin variant in, by isoelectric focusing in presence of carbamoylated myoglobins as coloured markers, 10D205
 detmn. of tri- and tetra-chloroethylene and their metabolites in, by g.l.c., 6D139
 detmn. of uraemic toxins in, by h.p.l.c., 12D147
 detmn. of urea, creatinine and glucose in, differential pH technique in, 12D148
 detmn. of urea in, by reflectance photometry, 12D149
 electrode for, 7D155
 detmn. of urea-nitrogen in, by biacetyl monoxime or urease - Berthelot method, effect of apomorphine in, 10D153
 detmn. of uric acid in chicken, by h.p.l.c., 10D242
 detmn. of Vinca alkaloids in, by h.p.l.c., 6D55
 detmn. of zinc in, effect of heparin sodium on, 12D26
 measurement of coenzyme activation of aspartate aminotransferase, glutathione reductase and transketolase of, kinetic, 8D227
 measurement of partial pressure of oxygen in, temp. correction in, 12D42, 12D43
 measurement of pH of, by potentiometry, 1D9
 fibre-optic device for, 2D11
 sampling of, heparinized "Microtainer" tube for, 12D8
 sepn. of chloroquine and de-ethylchloroquine in, by h.p.l.c., 3D70
 sepn. of glycolipids in, 7D130
 sepn. of methylamphetamine and amphetamine in, by column chromatography, 5D70
 stability of thyrotrophin in dried, effect of temp. on, 1D176
 study of stability of aspirin in, 4D101
- Blood plasma, analysis of, from pregnant women, PIXE in elementary, 12D17**
- IL System 1303 in, "sampling error" message in, 2D5
 with SMAC analyser, reduction of sample vol. for, 2D3
 assay of alanine and aspartate aminotransferases and creatine kinase in, threshold-value test for, 9D256
 assay of arginine carboxypeptidase in, by h.p.l.c., 3D262
 assay of aspartate aminotransferase in, pyridoxal 5-phosphate in automated, 8D240
 assay of biliary alkaline phosphatase in, by ion-exchange chromatography, 9D270
 assay of carbonate dehydratase in, by r.i.a., 8D256
 assay of cholinesterase in, succinylcholine-based, 9D260
 assay of cholinesterase variants in, kit for, 4D326
 assay of creatine kinase in human and animal, activation by *N*-acetylcysteine in, 1D209
 assay of creatine kinase isoenzyme MB in, immuno-inhibition kit for, 1D205
 assay of dipeptidyl carboxypeptidase in, by r.i.a., 3D268
 assay of glutathione transferases in, by r.i.a., 6D297
 assay of isoenzymes of enolase in, by immunoblotting, 10D261
 assay of lactate dehydrogenase in, platelet interference in, 12D225
 assay of lactate dehydrogenase isoenzymes in, 6D295
 assay of lipoprotein lipase and triacylglycerol lipase in, 12D240
 assay of neuraminidase in, by fluorimetry, 6D307
 assay of renin and angiotensin II in, program for immunoassay data processing in, 4A29
 assay of renin in, by r.i.a., 10D260
 effect of pre-incubation on, 6D311
 effect of temp. during blood processing in, 3D273
 detection of cisplatin in, by h.p.l.c., with post-column reaction detector, 12E59
 detection of cysteine and derivatives in, by derivatization - h.p.l.c., 7D176
 detection of doubly unsaturated valproic acid metabolites in, by g.c. - m.s., 12D77
 detection of drugs and metabolites in, by g.c., 10D49
 detmn. of, in heat-treated meat products, by ultra-thin-layer isoelectric focusing, 9F25
 detmn. of acetaldehyde in, by h.p.l.c., 10D114
 detmn. of *N*-acetyl-5-methoxytryptamine in, by g.c. - negative-ion chemical-ionization m.s., 8D176
 detmn. of *N*-acetylneuraminic acid in, by g.c. - m.s., 3D212
 detmn. of aclarubicin in, by h.p.l.c., 6D68
 detmn. of 4'-(9-acridinylamino)methanesulphon-*m*-aniside in, by h.p.l.c., 4D129
 detmn. of albumin in, automated spectrophotometric, 3D199
 by centrifugal analyser, bromocresol green in, 2D198
 by fluoro-immunoassay with Lucifer yellow VS, 8D199
 detmn. of alcuronium chloride in, by h.p.l.c., 5D87
 detmn. of allantoin in, by h.p.l.c., 6D128
 detmn. of allopurinol, oxypurinol and uric acid in, by h.p.l.c., 11D106
 detmn. of almitrine in, by h.p.l.c., 5D72
 detmn. of amezinium in, by h.p.l.c., 6D108
 detmn. of amikacin in, by EMIT, r.i.a. or microbiological assay, 11D57
 detmn. of amineptine and its main metabolite in, by h.p.l.c., 11D79
 detmn. of amino-acids in, automated, 7D167
 by h.p.l.c. of phthalaldehyde derivatives, 6D215

Blood plasma—continued

- detmn. of 2-amino-*N*-(1,1-dimethylhexyl)acetamide in, by g.l.c., 2D84
 detmn. of aminoglutethimide in, by g.l.c., 12D97
 by h.p.l.c., 1D66
 detmn. of 4-aminohex-5-enoic acid in, by automated amino-acid analysis, 11D67
 detmn. of 5-aminolaevulinic acid in, by g.l.c., 11D173
 detmn. of 5-(2-(3-aminopropylamino)ethyl phosphorothioate in, by h.p.l.c., 3D76
 detmn. of 4-aminopyridine in equine, by g.c., 12D84
 detmn. of amiodarone in, by h.p.l.c., 6D111
 detmn. of amitriptyline, nortriptyline and clomipramine in, by h.p.l.c., 8D57
 nortriptyline and their 10-hydroxy-metabolites in, by g.c., 7D68
 detmn. of amoxycillin in, by h.p.l.c., 11D50
 detmn. of amphotericin in, by h.p.l.c., 7D53
 detmn. of ampicillin, amoxycillin, cephalixin and cephradine in, by h.p.l.c., 4D80
 detmn. of ampicillin in, by spectrophotometry, 3D39
 detmn. of analgesics and anti-inflammatories in, by g.l.c., 6D82
 detmn. of anthracene-9-carboxylic acid in, by fluorimetry, 5D108
 detmn. of anthracycline antineoplastics in, by h.p.l.c., 11D58
 detmn. of antibiotics and methotrexate in, by assay with microbial enzymes, 4D69
 detmn. of anticonvulsants and theophylline in, by fluorescence immunoassay, 6D78
 detmn. of antidepressants in, by h.p.l.c., 2D81
 detmn. of antiepileptics in, 6D77
 by h.p.l.c., 5D60, 12D74
 detmn. of apolipoprotein A-II in, by immunonephelometry, 9D216
 detmn. of apolipoprotein A-I in, by electro-immunoassay, secondary standard for, 12D197
 detmn. of apolipoprotein B in, by r.i.a. with monoclonal antibodies, 6D265
 detmn. of apolipoprotein B in lipoproteins of, 5D212
 detmn. of apomorphine in, by h.p.l.c., 8D64
 detmn. of aprindine and its metabolite in, by h.p.l.c., 5D83
 detmn. of aptazapine in, by h.p.l.c., 11D78
 detmn. of arginine-vasopressin in, by r.i.a., 5D187, 9D193, 9D197
 by r.i.a. after purification, 6D226
 detmn. of 1-aryl-piperazines in rat, by g.c., 9D63
 detmn. of ascorbic acid in, by spectrophotometry, 4D295
 detmn. of aspirin and its metabolites in, by h.p.l.c., 4D100
 detmn. of aspirin and salicylic acid in, by h.p.l.c., 3D48, 7D64
 detmn. of astemizole and its metabolite in animal, by h.p.l.c., 7D85
 detmn. of AT-2266 and its metabolites in, by h.p.l.c., 7D86
 detmn. of atenolol in, by h.p.l.c., 2D91, 3D65, 4D116
 detmn. of azarole and its reduction product in, by h.p.l.c., 5D92
 detmn. of bamifylline and metabolites in, by h.p.l.c., 6D57
 detmn. of barbiturates in, by g.c., 3D44
 by g.l.c., 3D45
 detmn. of basic drugs in, by h.p.l.c., 8E1
 detmn. of bencyclane in, by g.c. - m.s., 10D99
 detmn. of benzodiazepines and clonazepam in, by extraction on Extrelut columns and polarography, 10D92
 detmn. of 5-benzoyl-2,3-dihydro-6-hydroxy-1*H*-indene-1-carboxylic acid in, by g.l.c., 6D86
 detmn. of bethanidine in, by h.p.l.c., 4D121
 detmn. of bilirubin in, automated, 4D270
 detmn. of bromazepam in, by h.p.l.c., 6D96
 detmn. of busulphan in, by g.c. - m.s. with selected-ion monitoring, 5D98
 by g.l.c., 6D123
 detmn. of butaperazine in, by r.i.a., 8D53
 detmn. of butofololol in, by g.c. and h.p.l.c., 7D76
 detmn. of cadmium in, by a.a.s., 6D35
 detmn. of cadralazine and its metabolites in, by isotope dilution, 8D76
 detmn. of caffeine and its *N*-demethyl metabolites in, by h.p.l.c., 11D47
 detmn. of caffeine in, by substrate-labelled fluoro-immunoassay, 12D60
 detmn. of calcium and magnesium in, by flow-injection analysis and a.a.s., 8D21
 detmn. of calcium and phosphorus in, automated spectrophotometric, 3D16
 detmn. of cannabinoids in, by h.p.l.c. and t.l.c. as dabsyl derivatives, 12D66
 detmn. of canrenone in, by h.p.l.c., 6D126
 detmn. of captopril and its disulphide metabolites in, by derivatization - g.c., 10D103
 detmn. of captopril and its metabolites in, by g.c. - m.s., 8D77
 detmn. of captopril in, by r.i.a., 3D67
 detmn. of carbamazepine in, by substrate-labelled fluorescence immunoassay, 4D93
 detmn. of carbon dioxide in, interference in potentiometric, 12D36
 detmn. of carbon-13-labelled lactate in, by g.c. - m.s., 12D123
 detmn. of carmustine in, by h.p.l.c., 9D97
 detmn. of carnitine and acylcarnitine in, washing procedures for, 9D184
 detmn. of carotenoids in, extraction - spectrophotometric, 10D217
 detmn. of carprofen in, by h.p.l.c., 2D87
 detmn. of catecholamine metabolites in, radio-enzymic, 9D158

Blood plasma—continued

- detmn. of catecholamines, adrenaline and noradrenaline in, by g.c. - m.s., 4D207
 detmn. of catecholamines in, by h.p.l.c., 1D127, 2D166
 by h.p.l.c. with electrochemical detection, 9D159
 deconjugation for, 10D155
 radio-enzymic, 2D165, 8D149, 12D151
 review, 11D161
 detmn. of catecholamines in canine, by h.p.l.c., loss of internal standard in, 5D170
 detmn. of cefotetan and iothalamic acid in, by h.p.l.c., 9D48
 detmn. of cefoxitin and cefmetazole in, by h.p.l.c., 9D47
 detmn. of cefsulodin in, by h.p.l.c., 10D69
 detmn. of cephalosporins in, by h.p.l.c., 2D57
 detmn. of chlormethiazole in, by h.p.l.c., 4D86
 detmn. of 9-chloro-7-(2-chlorophenyl)-5*H*-pyrimido-[5,4-*d*][2]benzazepine and its 5-hydroxy-metabolite in, by g.l.c. and h.p.l.c., 2D77
 detmn. of *NN'*-(2-chloro-5-cyano-*m*-phenylene)di(oxamic acid) in, by h.p.l.c., 2D99
 detmn. of 1-(2-chloroethyl)-3-(2,6-dioxo-3-piperidyl)-1-nitrosourea in, by t.l.c. - m.s., 1D65
 detmn. of chloroquine and metabolites in, by g.l.c., 11D103
 detmn. of chlorothiazide in, by h.p.l.c. with flow programming, 7D90
 detmn. of chlorpromazine and thioridazine in, by high-performance t.l.c., 8D52
 detmn. of chlorpromazine in, by h.p.l.c., 6D91
 detmn. of cholecalciferol in ovine, by h.p.l.c., 12D219
 detmn. of cholecystokinin in, by r.i.a., 3D170, 12D176
 antibodies for, 1D148
 detmn. of cholesterol in, enzymic, 10D143
 detmn. of cholesterol sulphate in, by g.c., 1D110
 detmn. of cistamide and its metabolites in, by h.p.l.c., 9D101
 detmn. of cisplatin-derived platinum in ultra-filtrate of, by h.p.l.c., 11D32
 detmn. of cisplatin in, by liquid chromatography, detection system for, 1D68
 detmn. of clavulanic acid in, by h.p.l.c. with post-column alkaline degradation, 10D68
 detmn. of clobfibric acid and its glucuronide in, by h.p.l.c., 5D105
 detmn. of clomipramine and demethylclomipramine in, by h.p.l.c., 1D53
 detmn. of clonazepam and its 7-amino- and 7-acetamido-derivatives in, by h.p.l.c., 11D66
 detmn. of cocaine in, by automated g.c., 11D44
 detmn. of codeine in, by g.l.c., 5D47
 detmn. of complement component C9 in, immunoradiometric, 6D259
 detmn. of conjugated steroids in, by g.l.c. and g.c. - m.s., 4D181
 detmn. of copovithane in, by h.p.l.c., 8D85
 detmn. of copper in, by a.a.s., 7D20
 detmn. of corticosteroid-binding globulin in, by r.i.a., 1D162
 detmn. of corticosterone in, by competitive protein binding, 4D195
 by h.p.l.c., 4D200
 detmn. of corticotrophin in, by r.i.a., 9D205
 detmn. of creatine in, by cation-exchange chromatography, 9D160
 detmn. of creatinine in, by h.p.l.c., 6D208
 discrete analyser in kinetic, 10D159
 enzymic, 1D137
 detmn. of 3-[4-(3-cyanobenzoyloxy)phenyl]-5-(methoxymethyl)oxazolidin-2-one in, by h.p.l.c., 6D101
 detmn. of cyanocobalamin in, 1D196
 detmn. of cyclophosphamide and fluorouracil in, by g.l.c., 6D121
 detmn. of (-)-1-cyclopropylmethyl-4-(3-trifluoromethylthio-5*H*-dibenzo[*a,d*]cyclohepten-5-ylidene)piperidine in, by g.l.c., 1D57
 detmn. of cyclosporin A in, by h.p.l.c., 9D96
 temp.-dependence of, 4D133
 detmn. of cyproheptadine in, by g.l.c., 4D122
 detmn. of cysteine in, 4-dimethylaminocinnamaldehyde in colorimetric, 6D220
 detmn. of cytotoxic drugs in, by t.l.c., mobile phases for, 2D106
 detmn. of daunorubicin, doxorubicin and their metabolites in, by h.p.l.c., 12D71
 detmn. of 3-deazauridine in, by h.p.l.c., 6D122
 detmn. of dehydroepiandrosterone sulphate in, enzymic, 4D192
 detmn. of 5'-deoxy-5-fluorouridine and fluorouracil in, by isotachopheresis, 4D131
 detmn. of dexamethasone in, by h.p.l.c. and g.c. - m.s., 11D62
 detmn. of 2,6-diamino-9-(2-hydroxyethoxymethyl)purine in, by r.i.a., 5D102
 detmn. of diazepam in, by extraction - spectrophotometry, 9D64
 detmn. of dibekacin in, by fluoro-immunoassay, 10D71
 detmn. of *N*-(2,4-dichlorobenzyl)indazole-3-carboxylic acid in, by h.p.l.c., 6D124
 detmn. of 6,7-dichloro-2-(4-fluorophenyl)-2-methyl-1-oxindan-5-yl-oxyacetic acid in, by methylation - g.l.c., 9D100
 detmn. of diflunisal in, by h.p.l.c., 8D49
 detmn. of 2-(2,4-difluorophenyl)-4,5-bis-(4-methoxyphenyl)imidazole in, by h.p.l.c., 5D73
 detmn. of digoxin in, by r.i.a., interference in, 12D65
 interfering substance in, 8D35
 limit of detection in, 12D62

Blood plasma, detmn. of digoxin in, —continued
sources of error in, 4D79

- detmn. of digoxin-like immunoreactive substances in, by solid-phase r.i.a., 10E14
- detmn. of 22,23-dihydroavermectin B_{1a} in, by h.p.l.c., 8D82
- detmn. of dihydrocupreidine and its 6'-benzoyloxy-analogue in, by ion-pair h.p.l.c., 8D75
- detmn. of dihydroergotamine components in, by r.i.a., 10D55
- detmn. of dihydroergotamine methanesulphonate in, by h.p.l.c., 2D54
- detmn. of 5,6-dihydrofluorouracil and fluorouracil in, by g.c., 7D89
- detmn. of 1,3-dihydro-4-methyl-5-[4-(methylthio)benzoyl]-2H-imidazol-2-one and its sulphoxide metabolite in, by h.p.l.c., 11D93
- detmn. of 1,6-dihydro-2-methyl-6-oxo-3,4'-bipyridyl-5-carbonitrile in, by h.p.l.c., 4D117
- detmn. of 1,25-dihydroxycholecalciferol in, by protein binding, 3D237
- detmn. of 17,21-dihydroxypregn-4-ene-3,20-dione and hydrocortisone in, by h.p.l.c., 11D145
- detmn. of 17,21-dihydroxypregn-4-ene-3,20-dione in, by enzyme immunoassay, 8D139
- detmn. of diltiazem and its deacetyl metabolite in, by g.l.c., 9D84
- detmn. of diminazene in, by h.p.l.c., 2D104
- detmn. of diosmine and diosmetine in, by h.p.l.c., 2D115
- detmn. of diphenhydramine in, by g.l.c., 3D68
- detmn. of dipyrone and 4-(methylanilino)antipyrine in, by h.p.l.c., 6D84
- detmn. of dipyrone metabolites in, by h.p.l.c., 9D61
- detmn. of dopa, 3,4-dihydroxyphenylacetic acid and catecholamines in, by h.p.l.c., 12D154
- detmn. of doxepin and desmethyldoxepin in, by h.p.l.c. and t.l.c., 5D68
- detmn. of doxorubicin in, by h.p.l.c. and r.i.a., 8D40
- detmn. of doxylamine in, by h.p.l.c., 3D69
- by h.p.l.c. and g.l.c., 10D105
- detmn. of drugs in, by g.c. or g.c. - m.s., fused-silica capillary columns in, 11J57
- by radioreceptor techniques, review, 10D52
- by spectrometry or g.c., 1D38
- by t.l.c. on reversed-phase bonded silica, 3E33
- detmn. of enantiomers of methoin and its *N*-demethylated metabolite in, by g.l.c., 12D76
- detmn. of endotoxin in, by spectrophotometry, 6D245
- detmn. of enteroglucagon in, by r.i.a., 8D181
- detmn. of ephedrine isomers in, by r.i.a., 1D42
- detmn. of 4'-epidoxorubicin in, by h.p.l.c., 10D74
- detmn. of erythromycin in, by h.p.l.c., 5D56
- detmn. of ethanediol in, review, 6D137
- detmn. of ethinyloestradiol in, by r.i.a., 11D61
- detmn. of ethioleptazine in, by g.l.c., 6D85
- detmn. of (±)-3-ethyl-2,6-dimethyl-4,4a,5,6,7,8,8a,9-octahydro-4a,8a-trans-1H-pyrrolo[2,3-g]isoquinolin-4-one in, by g.c. - m.s., 6D95
- detmn. of etomidate in, by h.p.l.c., 8D59
- detmn. of etretinate and its main metabolite in, by h.p.l.c., 4D290
- detmn. of Factor XIII zymogen in, by colorimetry, 1D164
- detmn. of fatty acids in, 9-aminophenanthrene as fluorescent labelling agent in h.p.l.c., 10D126
- detmn. of fenfluramine and norfenfluramine in, by g.l.c., 7D93
- detmn. of fenpropofen in, by h.p.l.c., 7D74
- detmn. of fentanyl in, by r.i.a. or g.l.c. with f.i.d. or N - P detection, 8D50
- detmn. of fentanyl and its hydroxy-metabolite in, by h.p.l.c., 6D104
- detmn. of ferulic acid in, by h.p.l.c., 1D70
- detmn. of fibronectin in, by enzyme immunoassay, 1D173
- detmn. of flecainide acetate in, by h.p.l.c., 8D74
- detmn. of flecainide in, by h.p.l.c. under bonded-phase column extraction, 10D102
- detmn. of flucytosine in, by h.p.l.c., 10D106
- detmn. of fluoride in, by g.l.c., 11D31
- detmn. of fluphenazine and trifluoperazine in, by r.i.a., haptens for, 9D66
- detmn. of fluphenazine in, by g.c. - m.s., 6D97
- detmn. of flupirtine in, by h.p.l.c., 8D46
- detmn. of fostedil in, by h.p.l.c., 8D90
- detmn. of free drugs in, ultra-micro filtration in, review, 12D54
- detmn. of free fatty acids in, 6D155
- effect of valproic acid on enzymic, 1D99
- detmn. of free ferulic acid in, by h.p.l.c., 7D48
- detmn. of free steroids in, by rate dialysis, 8D128
- detmn. of fuscic acid in, 3D42
- detmn. of gemfibrozil and its benzoic acid metabolite in, by g.l.c., 12D104
- detmn. of glucose and urea-nitrogen in, dry film slides and reflectance photometer in, 12J108
- detmn. of glucose in, by g.l.c. - m.s., 1D82
- by kinetic glucose dehydrogenase method, 8D106
- by multi-layer film analysis, 7D109
- enzyme electrode for, ferrocene derivative as electron-transfer mediator in, 12J164
- detmn. of glucose in rat, by glucose oxidase - peroxidase method, interference in, 11D119
- detmn. of glucuronide and sulphate conjugates of catecholamines in, radio-enzymic, 12D155

Blood plasma—continued

- detmn. of glutathione and mercapto-groups in, spectrophotometric, 7D179
- detmn. of glycerol in, enzymic, 3D97
- detmn. of glycerol in ruminant, enzymic, 7D115
- detmn. of glycyl trinitrate in, by h.p.l.c., 8D70
- detmn. of glycosylated proteins in, by affinity chromatography, 8D207
- detmn. of gossypol in, by h.p.l.c., 12D68
- detmn. of guaiphenesin glucuronides in, by h.p.l.c., 12D93
- detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
- detmn. of haemoglobin in, by colorimetry, 6D271
- colorimetric, 10D224
- detmn. of halazepam and desmethyldiazepam in, by g.l.c., 6D93
- detmn. of haloperidol in, by h.p.l.c., 6D92
- detmn. of histamine in, radio-enzymic, 9D164
- detmn. of hydrochlorothiazide in, by h.p.l.c., 12D102
- detmn. of hydrocortisone and methylprednisolone in, by h.p.l.c., 9D57
- detmn. of hydrocortisone in, by h.p.l.c. following solid-state extraction, 4D197
- detmn. of hydrocortisone in calf, by h.p.l.c., 7D148
- detmn. of 5-hydroxyindoles in, by liquid chromatography, 8D154
- detmn. of 3-hydroxykynurenine in, by anion exchange - h.p.l.c., 10D171
- detmn. of 4-hydroxy-3-methoxyphenylacetic acid and 4-hydroxy-3-methoxyphenylacetic acid in, by g.c. - m.s., 7D159
- detmn. of 4-hydroxy-3-methoxyphenylacetic acid in, by h.p.l.c., 8D148
- detmn. of 4-hydroxy-3-methoxyphenylethanol in, by h.p.l.c., 11D157
- by h.p.l.c. with e.c.d., 3D99
- detmn. of 4-hydroxy-3-methylbutyric acid in, by g.c., 12D122
- detmn. of 16 α -hydroxyoestrone in, by r.i.a., 4D184
- detmn. of 5-hydroxytryptamine in, by g.c. - m.s., 12D157
- by h.p.l.c. with e.c.d., 8D153
- detmn. of hymecromone and its conjugates in, by h.p.l.c., 7D84
- detmn. of ifosfamide in, by g.l.c., 2D110
- detmn. of imipramine and desipramine in, by t.l.c., 6D99
- detmn. of indenol in, by h.p.l.c., 7D79
- detmn. of indol-3-ylacetic acid and its 5-hydroxy-derivative in, by h.p.l.c., 1D132
- detmn. of indomethacin and its *O*-demethyl metabolite in, by g.l.c., 6D87
- detmn. of indomethacin in, by g.c. - m.s., 5D62
- by h.p.l.c., 6D83
- detmn. of inorganic sulphate in, centrifugal analyser in, 9D32
- detmn. of insulin in, by r.i.a., 3D167, 3D169
- stabilization of immunoreactivity at ambient temp. in, 2D182
- detmn. of ionized calcium in, inaccuracy of nomograms for, 6D31
- detmn. of isoniazid and acetylisoniazid in, by h.p.l.c., 6D119
- detmn. of isoniazid and its acetyl derivative in, by h.p.l.c., 12D94
- detmn. of isonix in, by h.p.l.c., 2D75
- detmn. of isoprenaline sulphate in, by h.p.l.c., 11D87
- detmn. of isosorbide 2- and 5-nitrate in, by g.c. - e.c.d., 8D69
- detmn. of isosorbide dinitrate and its metabolites in, by g.l.c., 9D85
- detmn. of isosorbide nitrates and dinitrate in, by g.l.c., 11D92
- detmn. of isoxiam in, by h.p.l.c., 8D63
- detmn. of isoxsuprine in, by g.l.c. with e.c.d., 7D83
- detmn. of ketanserine and reduced ketanserine in, by h.p.l.c., 6D115
- detmn. of ketanserine in, by h.p.l.c., 2D97
- detmn. of ketoconazole in, by h.p.l.c., 11D101
- detmn. of labetalol in, by h.p.l.c., 8D65
- detmn. of lactate in, centrifugal analyser in kinetic enzymic, 4D158
- kinetic, 9D115
- detmn. of lactic acid in, by capillary g.l.c., 6D160
- detmn. of levodopa in, by h.p.l.c., 6D61
- detmn. of lignocaine and its major metabolites in, by h.p.l.c., 12D86
- detmn. of lignocaine and its metabolites in, by g.l.c., 12D87
- detmn. of lipids in, by h.p.l.c. - polarimetry, 12J44
- by t.l.c. - f.i.d. and g.l.c., 2D144
- detmn. of lipoprotein lipase and triacylglycerol lipase in monkey post-heparin, 9D264
- detmn. of lipoproteins in, by h.p.l.c., 2D208
- detmn. of low-density lipoproteins in, by r.i.a. with monoclonal antibodies, 6D264
- detmn. of loxidine and lamtidine in, by r.i.a., 5D89
- detmn. of L-lysine in, by enzymic fluorimetry, 1D140
- detmn. of α_2 -macroglobulin in, substrate for enzymic, 1D172
- detmn. of magnesium in, by colorimetry, centrifugal analyser in, 7D23
- detmn. of malonaldehyde in, as index of lipoperoxides, by spectrophotometry, 5D134
- detmn. of maprotiline and *N*-desmethylnaprotiline in, by h.p.l.c., 3D59
- detmn. of maprotiline in, by t.l.c. - fluorimetry, 9D69
- detmn. of MDL 19,205 in, by h.p.l.c., 7D81
- detmn. of mehydroin napadisylate in, spectrophotometric, 11D97
- detmn. of mefloquine in, by h.p.l.c., 6D120
- detmn. of melatonin in, by r.i.a. and g.c. - m.s., 4D223
- detmn. of mercaptopurine, theophylline or chlorpromazine in, by h.p.l.c., 5D42
- detmn. of methadone, phenylclidine and cocaine in, by h.p.l.c., 2D72
- detmn. of methadone and ethanol in, by g.l.c., 5D64

Blood plasma—continued

- detmn. of methimazole in, 2,3-dichloro-1,4-naphthoquinone in spectrophotometric, 7D97
 detmn. of methohexitone in, by g.l.c. of pentafluorobenzyl derivative, 7D73
 detmn. of methotrexate in, centrifugal analyser in enzymic, 1D67
 detmn. of 2-(5-methoxyindol-3-yl)ethanol in, by r.i.a., 9D165
 detmn. of *N*-(6-methoxy-2,4-xylyl)-3-(2-methylpiperidino)propionamide in, by h.p.l.c., 5D85
 detmn. of *trans*-3-[6-(methylthio)-4-oxo-4*H*-quinazolin-3-yl]acrylic acid in, by h.p.l.c., 4D123
 detmn. of methypylone and its metabolite in, by h.p.l.c., 7D56
 detmn. of metoclopramide in, by g.l.c., 4D119
 detmn. of metoprolol and its α -hydroxy-metabolite in, by h.p.l.c., 9D78
 detmn. of metoprolol in, by h.p.l.c., 5D79
 detmn. of metronidazole and its metabolites in, by h.p.l.c., 6D117, 12D95
 detmn. of mexiletine in, by h.p.l.c., 9D82
 detmn. of midazolam and brotizolam in, by g.l.c. and radioreceptor assay, 6D103
 detmn. of mimosine and 3-hydroxypyridin-4-one in, by h.p.l.c., 3D82
 detmn. of mitomycin in, by differential pulse polarography, 8D42
 by h.p.l.c., extraction method for, 11D59, 11D60
 detmn. of mitoxantrone in, by h.p.l.c., 4D127
 detmn. of moclobamide in, by g.c., 7D71
 detmn. of morphine in, by h.p.l.c., 2D51, 10D54
 detmn. of mucopolysaccharides in, by "rocket" electrophoresis, 5D119
 detmn. of nadolol in, by h.p.l.c., 1D61, 9D79
 detmn. of nafazatrom in, by h.p.l.c., 8D72
 detmn. of nafimidone and its metabolite in, by h.p.l.c., 2D68
 detmn. of nandrolone in, by r.i.a., 9D56
 detmn. of naproxen in, by h.p.l.c., 5D66
 of peak shape in, 7D65
 detmn. of neutral glycolipids in, by h.p.l.c., 2D145
 detmn. of nifedipine in, by g.l.c., 6D107
 by h.p.l.c., 1D59
 detmn. of nimodipine and its metabolites in, by g.c. and h.p.l.c., 8D89
 detmn. of nitrate and nitrite in, by ion-exchange h.p.l.c., 10D40
 detmn. of nitrazepam and temazepam in, by h.p.l.c., 4D103
 detmn. of norethisterone in, by r.i.a., 10D78
 detmn. of norfloxacin in, by ion-pair reversed-phase chromatography, 9D52
 detmn. of noscapine in, by h.p.l.c., 2D53
 detmn. of oestra-3,17 β -diol in, by g.c. - m.s., 1D113
 detmn. of 17 β -oestradiol in, by r.i.a., 7D145
 detmn. of oestradiol in, by solid-phase chemiluminescence immunoassay, 7D142
 detmn. of oestriol in, by h.p.l.c., 12D141
 detmn. of oestrone and oestradiol in, by bioluminescence, 7D144
 detmn. of olipraz in, by g.l.c., 9D92
 detmn. of omeprazole and its sulphone and sulphide metabolites in, by h.p.l.c., 7D92
 detmn. of oxalate in, enzymic, 9D125
 detmn. of oxalic acid in, enzymic - spectrophotometric, 5D128
 detmn. of oxcabazepine in, by h.p.l.c., 2D65
 detmn. of oxmetidine in, by h.p.l.c., 8D79
 detmn. of oxo-acids in, 4D162
 detmn. of 2-oxoglutaric acid in, by capillary g.c. - m.s., 9D120
 detmn. of oxpentifylline and its hydroxy-metabolite in, by h.p.l.c., 9D83
 detmn. of oxprenolol in, by g.l.c., 5D78
 detmn. of oxygenated sterols in, by g.l.c., 5D142
 detmn. of oxyphenbutazone in, by h.p.l.c., 2D73
 detmn. of oxyphenonium in, by radioreceptor assay, 11D95
 detmn. of oxytocin in, by r.i.a., 5D191, 8D183
 detmn. of pancreatic polypeptide in, by r.i.a., 6D230
 detmn. of paracetamol in, by h.p.l.c., 9D60
 colorimetric, 10D90
 enzymic, 5D61
 detmn. of penbutolol and its 4-hydroxy-metabolite in, by h.p.l.c., 12D89
 detmn. of penicillamine in, by h.p.l.c. after derivatization, 2D113
 detmn. of pentobarbitone in, by h.p.l.c., 7D57
 detmn. of peptidoaminobenzophenone in, by g.c. - m.s., 9D68
 detmn. of phenazone and its metabolites in, by automated h.p.l.c., 7D62
 detmn. of phenazone in, pptn. of proteins in, 6D90
 detmn. of phenacycline and hydroxylated metabolites in, by g.l.c., 4D97
 detmn. of phenobarbitone, phenytoin and *p*-hydroxyphenytoin in, by h.p.l.c., 10D82
 detmn. of phenobarbitone in, by capillary g.c., 2D61
 detmn. of phenylacetic acid in, by g.c. - m.s., 6D156
 detmn. of phenylalanine and tyrosine in, kinetic spectrophotometric kit for, 10D169
 detmn. of 2-phenylbutyric acid in, by h.p.l.c. and g.l.c., 6D162
 detmn. of phenylpropanolamine in, by h.p.l.c., 1D58
 detmn. of phenytoin, carbamazepine and valproic acid in, by enzyme-multiplied immunoassay, 4D88
 detmn. of phenytoin and phenobarbitone in, by h.p.l.c., 4D87

Blood plasma, detmn. of phenytoin and phenobarbitone in,—continued

- simultaneous, by fluoro-immunoassay, 1D48
 detmn. of phenytoin in, by EMIT, contribution of 5-(4-hydroxyphenyl)-5-phenylhydantoin to, 10D85
 detmn. of phenytoin in ultra-filtrates of, by g.l.c., 4D91
 detmn. of phosphatidylcholine and sphingomyelin in, by t.l.c. - densitometry, 1D181
 detmn. of phyloquinone and its 2,3-epoxide in, by g.l.c. with coated fused-silica column, 11D63
 by h.p.l.c., 6D287
 detmn. of phyloquinone epoxide in, by h.p.l.c. with electrochemical - fluorimetric detection, 12D222
 detmn. of phyloquinone in, by h.p.l.c., 8D223
 detmn. of phytomenadione in, by h.p.l.c. with electrochemical detection, 10D246
 detmn. of pimozone in, by h.p.l.c., 2D78
 detmn. of piperacillin in, by liquid chromatography, 8D37
 detmn. of piroxicam in, by h.p.l.c., 2D88
 detmn. of platelet factor 4 of, by enzyme immunoassay, 11D199
 detmn. of potassium in, by direct potentiometry, effects of residual liquid junction potential in, 10D23
 detmn. of prazosin in, by h.p.l.c., 2D90
 detmn. of prazosin in, by h.p.l.c., 1D60
 by t.l.c., 4D120
 detmn. of prealbumin in, by r.i.a., 6D250
 detmn. of prenalator in, by h.p.l.c., 12D90
 detmn. of primaquine in, by h.p.l.c., 8D83
 detmn. of primidone in, by fluoro-immunoassay, 1D50
 detmn. of probucol in, by h.p.l.c., 6D130
 detmn. of products of lipid alcoholysis in, by g.l.c., 12D131
 detmn. of progabide in, by h.p.l.c., 2D67
 detmn. of progesterone in, by fluoro-immunoassay, phenanthroimidazol-2-amine in, 5D154
 errors in kit for, 10D144
 detmn. of proinsulin C-peptide in, by r.i.a., review, 6D228
 detmn. of promethazine in, by h.p.l.c., 1D62
 detmn. of propane-1,2-diol in, by g.l.c., 7D98
 detmn. of propranolol and 3-(1-naphthoxy)lactic acid in, by h.p.l.c., 1D56
 detmn. of propranolol in, by r.i.a., 7D78
 detmn. of prostacyclin analogue ZK 36 374 in, by r.i.a., 8D73
 detmn. of prostacyclin in, by h.p.l.c., 6D170
 detmn. of prostaglandin E₂ in, by g.c. - m.s., 7D128
 detmn. of prostaglandin E₂ metabolites in, by r.i.a., 8D124
 detmn. of proteins in, by cation-exchange h.p.l.c., 3D174
 by electrophoresis, 2I33
 by immunoassay, 1D154
 by ion-exchange chromatography - size-exclusion chromatography, 3D175
 detmn. of pteridines and sepiapterins in, by h.p.l.c., 3D137
 detmn. of purine and pyrimidine nucleosides and bases in, by h.p.l.c., 10D238
 detmn. of pyridoxal and pyridoxal 5'-phosphate in, by fluorimetry, 9D244
 detmn. of pyrimethamine in, by g.c., 11D104
 detmn. of pyrophosphate in, enzymic - fluorimetric, 11D27
 detmn. of quazepam and its metabolites in, by g.l.c., 11D76
 detmn. of quinidine in, by t.l.c., 12D57, 12D58
 detmn. of quinine in, by liquid chromatography, 3D33
 detmn. of renin in, sample collection and processing for, 1D227
 detmn. of retinol, tocopherols and cholecalciferol in mammalian, by h.p.l.c., antioxidants in, 6D285
 detmn. of retinol in, by h.p.l.c., 3D236
 detmn. of 2- β -D-ribofuranosylthiazole-4-carboxamide in, by h.p.l.c., 2D108
 detmn. of riboxamide in, by h.p.l.c., 2D107, 12D98
 detmn. of ritodrine in, by h.p.l.c., 7D75
 detmn. of Ro 15-1788 in, by g.c., 1D52
 detmn. of Ro 13-6438 in, by h.p.l.c., 8D71
 detmn. of salbutamol in, by g.c. - m.s., 6D113
 by h.p.l.c., 6D105, 9D87
 detmn. of salicylate in, by spectrophotometry, 3D50
 detmn. of selegiline in, by capillary g.c., 10D95
 detmn. of serine in, by fluorimetry, after oxidation and complexation with acetylacetone, 4D221
 detmn. of sex-hormone-binding globulin in, by electroimmunodiffusion, 10D204
 removal of interference in, 6D236
 detmn. of SK&F 93479 in, by h.p.l.c., 2D98
 detmn. of sodium and potassium in, by ion-selective electrode, 10D19
 by potentiometry, 1D12
 with microprocessor-controlled ion-selective electrodes, 7D19
 detmn. of solanidine in, by r.i.a., 6D143
 detmn. of somatostatin in, by r.i.a., 5D194, 6D231
 detmn. of sorbitan monolaurate in, by g.l.c., 3D80
 detmn. of sparsomycin in, by h.p.l.c., 2D58
 detmn. of spirorenone and its metabolites in, by h.p.l.c. and g.c. - m.s., 4D135
 detmn. of steroids in, by g.l.c. and g.l.c. - m.s., 6D184
 detmn. of steroid sulphates and glucuronides in, by m.s., 4D180

Blood plasma—continued

- detmn. of stirocaine in, by g.l.c., 12D92
 detmn. of sugars in, by h.p.l.c., 12D114
 detmn. of sulfadoxine, its metabolite and pyrimethamine in, by h.p.l.c., 9D93
 detmn. of sulindac and its metabolites in, by t.l.c. - densitometry, 12D79
 detmn. of sulmazole and its metabolites in, by h.p.l.c., 7D80
 detmn. of sulphinpyrazone and metabolites in, by h.p.l.c., 6D129
 detmn. of sulphonamides in, by t.l.c., 4D124
 detmn. of tamoxifen and its metabolites in, by h.p.l.c., 2D111
 detmn. of teniposide and etoposide and their metabolites in, by h.p.l.c. with electrochemical detection, 9D98
 detmn. of testolactone and its 4,5-dihydro-metabolite in, by h.p.l.c., 6D71
 detmn. of testosterone and dihydrotestosterone in by r.i.a., 2D155
 detmn. of testosterone in, by ligand differentiation r.i.a., 4D188 by r.i.a., 9D55
 detmn. of 4'-O-tetrahydropyranidoxorubicin in, by h.p.l.c., 8D43
 detmn. of thiocetazone in, by h.p.l.c., 4D126
 detmn. of thiomalate in, by h.p.l.c., 3D77
 detmn. of thiopentone in, by h.p.l.c., 4D111
 detmn. of thioridazine and its metabolites in, by h.p.l.c., 2D79
 detmn. of thromboxane B₂ in, by enzyme immunoassay, 3D108
 detmn. of thyroxine in, by r.i.a., 3D151
 reliability of kits for, 1D144
 detmn. of timolol in, by h.p.l.c., 8D66
 detmn. of tissue plasminogen activator in, by enzyme immunoassay, 7D197
 detmn. of tocaine enantiomers in, by g.l.c., 11D91
 detmn. of tocopherol isomers, α -tocopherylquinone and cholesterol in, by h.p.l.c., 11D222
 detmn. of total platinum in, by differential pulse polarography, 5D39
 detmn. of trace chromium in, by PIXE, 12D47
 detmn. of trazodone and 1-(3-chlorophenyl)piperazine in, by h.p.l.c., 5D69
 detmn. of trazodone and mianserin in, by h.p.l.c., 9D72
 detmn. of tri- and tetra-cyclic antidepressants in, by h.p.l.c., 10D93
 detmn. of triazolam in, by polarography, 7D66
 detmn. of trichloroacetic acid in, by decarboxylation - g.c., 11D110
 detmn. of tricyclic antidepressants in, by g.l.c., 6D100, 9D70 by h.p.l.c., 7D69
 review, 9D71
 detmn. of trifluoroacetate in, by h.p.l.c., 8D61
 detmn. of triglycerides in, by h.p.l.c. - m.s., 4F75
 detmn. of tri-iodothyronine in, by r.i.a., 3D152
 detmn. of trimethyl-lysine in, by h.p.l.c., 11D174
 detmn. of tritoyl phosphate and its metabolites in, by h.p.l.c., 8D92
 detmn. of tryptophan in, by h.p.l.c., 12D167
 by h.p.l.c. after conversion into 9-hydroxymethyl- β -carboline, 4D224
 detmn. of T-2 toxin in, by g.l.c., 2D117
 detmn. of tubocurarine chloride and metocurine iodide in, by h.p.l.c., 11D83
 detmn. of ultra-filtrable zinc in, by a.a.s., 6D34
 detmn. of unbound hormones in, effect of sample dilution on, 8D142
 detmn. of unbound steroid hormones in, review, 8D133
 detmn. of urate in, by h.p.l.c., 10D241
 enzymic - colorimetric, 9D239
 detmn. of urea, creatinine and glucose in, differential pH technique in, 12D148
 detmn. of urea and glucose, simultaneous, automated, 1D124
 detmn. of urochloral acid in, by g.l.c., 12D85
 detmn. of valproic acid and deuterated analogues in, by g.l.c., 4D95
 detmn. of valproic acid in, by enzyme-multiplied immunoassay, ultra-filtration in, 1D49 by g.c., 3D47
 detmn. of vasodilators and their metabolites in, by h.p.l.c., 6D112
 detmn. of viloxazine in, by h.p.l.c., 7D70
 detmn. of Vinca alkaloids in, by h.p.l.c., 6D55
 detmn. of vitamin K compounds in, by h.p.l.c., 11D223
 detmn. of warfarin in, by h.p.l.c., 3D74
 by m.s., 8D88
 detmn. of xanthine, hypoxanthine and uric acid in, by h.p.l.c., 4D288
 detmn. of xylose in, by capillary-column g.c., 10D121
 detmn. of yohimbine in, by h.p.l.c., 11D46
 detmn. of zinc and copper in, by a.a.s. with automated dilution, 5D22
 detmn. of zinc in, 1D20
 by a.a.s., 2D22
 contamination from collection tubes in, 4D35
 by flame a.a.s., 11D17
 detmn. of zomepirac in, by g.l.c., 4D96
 extraction of acidic drugs from, 10D79
 extraction of bile acids from, ion-pair, 6D197
 extraction of cholecalciferol from, evaluation of Sep-Pak C₁₈ cartridges for, 4D292
 extraction of free carbamazepine from, by ultra-filtration, 11D65
 extraction of heptacaine from, 4D113
 extraction of hormones from, by filtration through Sep-Pak C₁₈, apparatus for, 12D11
 extraction of lipoproteins from, centrifuge tubes for, 11D212

Blood plasma—continued

- extraction of pentacaine from, 11D85
 fractionation of lipoproteins of, with Beckman Airfuge, 4D263
 identn. of lysophosphatidic acids in, by g.c. - m.s., 11D143
 identn. of proteins in, by immunoelectrophoresis with immunosubtraction, 6D232
 pptn. of low-density lipoproteins from, 2D210
 profiling of carboxylic acids in, by g.l.c., 5D127
 sepn. of benzodiazepine glucuronides in, by h.p.l.c., 11D77
 sepn. of 1-benzyl-4-picolinoylpiperazine and its metabolites in, by h.p.l.c., 3D60
 sepn. of cholecalciferol derivatives in, by h.p.l.c., 2D224
 sepn. of lipoproteins in, by discontinuous density-gradient ultra-centrifugation, 2D209
 sepn. of metabolites of xenobiotics in, by ion-exchange chromatography, 2D123
 sepn. of peptide hormones in, by h.p.l.c., 8D180
 sepn. of prostaglandins in, by t.l.c., 1D102
 sepn. of prothrombin and decarboxyprothrombin in, by h.p.l.c., 11D204
 sepn. of steroids in, by h.p.l.c., 4D179, 8D134
 sepn. of transferrin in, by h.p.l.c., 3D195
 study of stability of aspirin in, 4D101
- Blood platelets**, assay of amine oxidase (flavin-containing) in, spectrophotometric, 8D236
 detmn. of calcium and magnesium in, by a.a.s., 12D25
 detmn. of glutathione and mercapto-groups in, spectrophotometric, 7D179
 detmn. of pyrophosphate in, enzymic - fluorimetric, 11D27
 detmn. of zinc in, by n.a.a. and a.a.s., 12D25
 identn. of phospholipids in, by h.p.l.c. - g.l.c., 2D150
 sepn. of, from other blood cells, by h.p.l.c., 4D11
- Blood serum**, analysis of, algorithm for minimizing analytical variance in, 2A11, 2A12
 as dry aerosol, nebulizer for plasma spectrometric, 12D4
 automated instrument for, 6D10, 9D10
 by continuous-flow, control materials for, 8D3
 day-to-day variation in results of automated colorimetric, 12D6
 effect of diazepam on automated, 9D4
 Hitachi 705 analyser for, 8J10
 interference by cefotaxime in, 4D12
 liquid and freeze-dried control materials for, 6D20
 selectivity and sensitivity in, 6D7
 with SMAC analyser, reduction of sample vol. for, 2D3
 analysis of human, by high-performance electrophoresis, 5J45
 analysis of ultra-filtrate of, by isotachopheresis followed by h.p.l.c., 6D14
 assay of β -N-acetylhexosaminidase in, by spectrophotometry, chromogenic substrate for, 5D249
 assay of acid phosphatase in, kinetic, 12D233
 spectrophotometric, 3D272
 assay of alanine and aspartate aminotransferases and creatine kinase in, threshold-value test for, 9D256
 assay of alkaline phosphatase in, 3D260
 by anion-exchange chromatography, 2D232
 spectrophotometric, 12D238
 assay of aminopeptidase (cytosol) in, electrode for, 2D34
 assay of amylase and isomylase in, centrifugal analyser in, 1D225
 assay of amylase in, automated, 9D265
 by centrifugal analyser, kinetic, 2D236
 assay of α -amylase in, by fluorimetry, substrate for, 5D253
 assay of amylase in, enzymic - colorimetric, 1D221
 assay of arginine carboxypeptidase in, by spectrophotometry, 5D245
 assay of aspartate aminotransferase in, 4D334
 interference by metronidazole in, 6D296
 assay of aspartate aminotransferase isoenzymes in, by electrophoresis - densitometry, 4D311
 assay of biotinidase in, radiochemical, 8D245
 assay of carboxypeptidase A in, by fluorimetry, 6D314
 assay of carcinoembryonic alkaline phosphatase in, by enzyme immunoassay, 6D306
 assay of cholinesterase in, 3D261, 9D261
 by flow-injection amperometry, 5D244
 kinetic - spectrophotometric, 7D253
 assay of creatine kinase in, by bioluminescence, 5D239
 fluorimetric, 11D241
 assay of creatine kinase isoenzymes in, by bioluminescence, 8D242
 assay of creatine kinase MB in, with the Du Pont *aca*, interference in, 9D252
 assay of creatine kinase MB isoenzyme in, by spectrofluorimetry, 1D206
 assay of dipeptidyl carboxypeptidase in, by colorimetry, 1D226
 by microcentrifugation, 8D247
 by spectrophotometry, 1D224, 5D252, 6D312
 colorimetric, 12D241
 spectrophotometric, 12D231
 assay of dopamine β -monooxygenase activity in, by h.p.l.c., 12D228
 assay of enolase in, bioluminescent, 7D255
 assay of enzymes in, by inhibitor-binding assay, 12D237
 assay of fructose-bisphosphatase in, spectrophotometric, 10D257

Blood serum—continued

- assay of γ -glutamyltransferase in, standard values for, 1D210
 assay of guanosine deaminase in, by colorimetry, 6D304
 assay of isoenzymes of α -amylase in, by electrophoresis, 10D255
 assay of lactate dehydrogenase and creatine kinase in, reagent strips and reflectance spectrometry in, 12D229
 assay of lactate dehydrogenase in, amperometric, 10D248
 by nitrogen laser-excited fluorimetry, 7D237
 immunochemical, 8D233
 assay of lactate dehydrogenase isoenzymes in, by anion-exchange chromatography, 1D201
 by immunoelectrophoresis, 8D232
 assay of lactose synthase in, by ELISA, 6D301
 assay of 5'-nucleotidase in, automated spectrophotometric, 3D269
 assay of pancreatic and salivary α -amylase of, fluorimetric, 11D248
 assay of phospholipase A₂ in, by fluorimunoassay, 4D327
 assay of prostatic acid phosphatase in, by r.i.a., 4D333
 assay of pyruvate kinase isoenzymes in, by electrophoresis and isoelectric focusing, 8D239
 assay of triacylglycerol lipase in, substrate for, 6D315
 assay of trypsin-like protease of, fluorimetric, 11D249
 de-lipidation of, reagents for, for reference purposes, 10D7
 detection of cannabinoids in, by g.c. - m.s., 5D52
 detection of digoxin-like immunoreactive substance in, by fluorescence polarization immunoassay, 12D63
 detection of glycoproteins in, by gel electrophoresis, staining method for, 6D260
 detection of IgE in rat, by r.i.a. and ELISA, 12D192
 detection of paracetamol in, by t.l.c., detection reagent for, 11D71
 detection of proteins in, on polyacrylamide gels, silver stain for, 9D202
 detection of T-2 toxin in, by r.i.a., 10D111
 detmn. of acetoacetate and 3-hydroxybutyrate in, by spectrophotometry, 6D165
 detmn. of *N*-acetylneuraminic acid in, by spectrophotometry and fluorimetry, 3D209
 detmn. of acidic catecholamine metabolites in, by g.c., review, 10D154
 detmn. of albumin in, automated spectrophotometric, 3D199
 bromocresol purple in automated spectrophotometric, 6D252
 by centrifugal analyser, bromocresol green in, 2D198
 by dye-binding method, 9D209
 by dye-binding with bromocresol green, 10D208
 by electroimmunoassay, 4D253
 by fluoro-immunoassay, dye as label for, 1D170
 by multi-layer film bromocresol green method, 12D187
 dye methods for, 2D196
 modified bromocresol purple method for, 6D253
 spectrophotometric, 12D191
 with bromocresol green, 12D188
 detmn. of albumin in bovine, ovine and equine, by bromocresol green reaction and electrophoresis, 9D212
 detmn. of albumin in human, bromocresol purple in automated, 10D207
 by homogeneous substrate-labelled fluorescence immunoassay, 8D202
 by indirect chemiluminescence, 12D190
 detmn. of allopurinol, oxypurinol and uric acid in, by h.p.l.c., 11D106
 detmn. of aluminium in, by a.a.s., 1D22, 6D38
 by extraction - graphite-furnace a.a.s., 10D35
 by flameless a.a.s., 9D26
 by graphite-furnace a.a.s., 8D24
 detmn. of amikacin in, by h.p.l.c., 12D70
 by h.p.l.c. of 2,4-dinitrophenyl derivative, 4D81
 detmn. of amino-acids in, by g.l.c., 6D211
 interference in, 9D173
 detmn. of aminoglycoside antibiotics, phenytoin and theophylline in, by fluoro-immunoassay, 1D39
 detmn. of aminoglycosides in, by automated h.p.l.c., 9D50
 by h.p.l.c., 9D51
 detmn. of 4-aminohippuric acid in, by colorimetry, effect of antibiotics on, 7D91
 detmn. of α -amino-nitrogen in, by spectrophotometry, proposed Pharmacopoeial methods for, 4D217
 detmn. of *N*-(4-aminophenyl)aminophenyliminodiacetic acid in, by r.i.a., 1D71
 detmn. of amiodarone and its *N*-de-ethylated metabolite in, by h.p.l.c., 6D109
 detmn. of amitriptyline and its metabolites in, by g.c. - m.s., 8D55
 detmn. of amitriptyline and nortriptyline in, by h.p.l.c., "Toxi-Tube" extraction procedure for, 8D56
 detmn. of ammonia in, electrode for, 2D34
 kinetic enzymic, 4D46
 detmn. of amphotericin in, by h.p.l.c., 7D53
 detmn. of anabolic steroids in bovine, by two-dimensional t.l.c., 7D96
 detmn. of analgesics in, by h.p.l.c. with electrochemical detection, 5D65
 detmn. of anaphylatoxins in, by r.i.a., 9D208
 detmn. of androgens in, by h.p.l.c. - r.i.a., 4D191
 detmn. of androstenedione in, by r.i.a., 11D152
 detmn. of antiarrhythmic drugs and chloramphenicol in, by t.l.c. - reflectance scanning, 11D94

Blood serum—continued

- detmn. of anticonvulsants in, by h.p.l.c., 12D73
 by liquid chromatography, 7D58
 by reversed-phase h.p.l.c., 8D47
 by semi-automated enzyme immunoassay, 4D90
 detmn. of antiepileptics in, by h.p.l.c., 5D60, 8D45
 effect of storage on, 10D81
 detmn. of α_1 -antitrypsin in, 4D254
 detmn. of apalcillin in, by h.p.l.c., 1D44
 detmn. of apolipoprotein A-II in, by immunonephelometry, 1D180
 detmn. of apolipoprotein A-I in, by radial immunodiffusion and gel electrophoresis, 11D211
 turbidimetric, 12D198
 detmn. of apolipoprotein A-I in monkey, by ELISA, 8D211
 detmn. of apolipoprotein B in, by immunonephelometry, effect of lipase treatment and detergents in, 1D179
 by non-competitive enzyme-linked immunoassay, 8D209
 detmn. of apolipoproteins A-I, B and C-II in, by electroimmunoassay, 4D264
 B and E in, by laser nephelometry, 9D219
 detmn. of arabinitol and mannose in, by g.l.c., 6D145
 detmn. of ascorbic acid in, by spectrophotometry, 4D295
 detmn. of aspirin and salicylic acid in, by g.l.c. of TMS derivatives, 4D102
 detmn. of atenolol in, by h.p.l.c., 4D116
 detmn. of azlocillin and mezlocillin in, by h.p.l.c., 6D63
 detmn. of aztreonam in, by h.p.l.c., 6D67
 detmn. of barbiturates in, by EMIT, 6D75, 8D48
 detmn. of benzodiazepines in, by r.i.a., antiserum for, 10D91
 detmn. of bestatin and 4-hydroxybestatin in, by h.p.l.c., 9D95
 detmn. of bile acids in, by bioluminometry, 1D121
 by centrifugal analyser, with pre-inactivation of enzyme, 1D120
 by h.p.l.c., 6D198, 7D151
 by h.p.l.c. of fluorescent derivatives, 4D201
 by h.p.l.c. with immobilized enzyme reactor, 5D161
 by isotope dilution - m.s., 8D145
 by t.l.c. - spectrofluorimetry, 5D158
 3 α -hydroxysteroid dehydrogenase in enzymic, 8D144
 immobilized hydroxysteroid dehydrogenases in continuous-flow automated, 9D99
 interference by protein in, 4D204
 detmn. of bilirubin esters in, by h.p.l.c., 4D267
 detmn. of bilirubin in, automated spectrophotometric, 10D220
 by fast-scan square-wave voltammetry, 7D208
 interference by haemoglobin in, 1D182
 detmn. of bovine immunoglobulin E in, by enzyme immunoassay, 7D198
 detmn. of bromide in, by anion-exchange chromatography, 12D51
 detmn. of bromine and iodine in, by n.a.a., 10D44
 detmn. of cadmium, manganese, zinc and copper in, by a.a.s., 9D19
 detmn. of caffeine, theophylline and theobromine in, by h.p.l.c., 10D58
 detmn. of caffeine and theophylline in, by h.p.l.c., 6D58
 detmn. of calcitonin in, by r.i.a., review, 3D171
 detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
 by flow-injection analysis and a.a.s., 8D21
 detmn. of calcium in, by a.a.s., 3D17
 by spectrophotometry, kit for, 1D18
 Donnan effect in, 2D21
 spectrophotometric kit for, 10D27
 static-type ion-selective electrode in, 4D32
 with automated analyser, effect of haemolysis on, 2D20
 detmn. of calcium in reference, by ICP a.e.s., 11D15
 detmn. of captopril in, by r.i.a., 10D101
 detmn. of carbamazepine and phenytoin in, by spectrophotometry, 4D92
 detmn. of carbamazepine and valproic acid in, EMIT filtration and assay systems for, 10D84
 detmn. of carbamazepine in, by fluorescence immunoassay and enzyme-multiplied immunoassay, 4D94
 detmn. of carboxamine and hydrocodone in, by g.l.c., 6D116
 detmn. of β -carotene in, by h.p.l.c., 1D183
 detmn. of carotenoids in, extraction - spectrophotometric, 10D217
 detmn. of catecholamines in, by h.p.l.c. with dual electrochemical detection, 2D163
 detmn. of cefmenoxime in, by h.p.l.c., 1D45, 6D64
 detmn. of cefoperazone in, by h.p.l.c., 2D56
 detmn. of cefotaxime in, by enzyme inhibition, 7D50
 detmn. of cefsulodin and cefotiam in, by h.p.l.c., 3D40
 detmn. of ceftazidime in, by h.p.l.c., 11D52, 11D53
 detmn. of ceftizoxime in, by h.p.l.c., 11D51
 detmn. of cephalosporins in, by h.p.l.c., 5D53
 detmn. of cephamandole in, by h.p.l.c., 7D49
 detmn. of chloramphenicol and its succinate esters in, by h.p.l.c., 7D52
 detmn. of cholesterol and apolipoprotein B in low-density lipoprotein of, after pptn. of very-low-density lipoprotein, 9D218
 detmn. of cholesterol and lactate dehydrogenase in, enzyme sensors in, review, 5D4
 detmn. of cholesterol in, by g.l.c., 5D140
 by spectrophotometry or fluorimetry, 4D178

Blood serum, detmn. of cholesterol in,—continued

- electroenzymic, 2D151
- enzymic, 1D111, 10D143
- enzymic reagent for, 1D108
- kinetic enzymic, 4D177
- kits for enzymic, 6D182
- with cholesterol oxidase - 4-aminoantipyrine, 10D142
- detmn. of cholesteryl esters in, by g.l.c., 4D175
- detmn. of cholic and chenodeoxycholic acids in, enzymic - fluorimetric, 9D147
- detmn. of chorionic gonadotrophin in, by r.i.a., 5D209
- kits for, 4D258
- with the GammaDab β -HCG kit, false-positive results in, 4D260
- detmn. of chorionic gonadotrophin β -sub-unit in, by enzyme immunoassay, 6D262
- detmn. of ciglitazone and its hydroxy-metabolites in, by h.p.l.c., 12D103
- detmn. of cimetidine in, by voltammetry, 5D90
- detmn. of cisplatin in, by h.p.l.c., 5E53
- detmn. of codeine and morphine in, by h.p.l.c., 5D45
- detmn. of complement component C9 in, immunoradiometric, 6D259
- detmn. of copper, zinc, cadmium and manganese in, by a.a.s., contamination in, 10D16
- detmn. of copper and zinc in, by anodic-stripping voltammetry, 10D31
- detmn. of copper in, by a.a.s., 2D18
- inter-laboratory assessment of, 4D30
- by flow-injection analysis, 8D20
- by spectrophotometry, 2D16, 5B35
- detmn. of corticosterone in, equilibrium sepn. in protein-binding, 9D143
- detmn. of C-reactive protein in, by particle-counting immunoassay, 1D168
- detmn. of creatine kinase in, by bioluminescence, luciferase on filter-paper in, 5D242
- detmn. of creatine kinase MB isoenzyme in, by immunoinhibition, interference by CK-BB and atypical CK in, 8D241
- detmn. of creatinine in, amperometric sensor for, 2J114
- by alkaline picrate method, effect of glutaraldehyde on, 1D129
- by h.p.l.c. and picrate method, 1D130
- by Jaffe method, interference by phenacemide in, 12D156
- effect of cefoxitin on, 4D211
- enzymic, 5D171, 6D209
- enzymic - colorimetric, 2D170
- in presence of cephem antibiotics, 9D162
- interference by cefoxitin and ceforanide in, 6D207
- spectrophotometric, 3D132
- with enzyme electrode, 3J109
- detmn. of cyanocobalamin and folate in, by simultaneous r.i.a., 4D294
- detmn. of cytarabine, 1- β -D-arabinofuranosyluracil and salicylate in, by h.p.l.c., 4D130
- detmn. of 11-deoxycortisol in, by enzyme immunoassay, 12D143
- detmn. of dialysable calcium in, continuous-flow spectrophotometric, 10D29
- detmn. of diazepam and desmethyldiazepam in, by g.l.c., 11D75
- detmn. of dibekacin in, by fluoro-immunoassay, 10D71
- detmn. of *N*-(3,4-dichlorophenyl)-*N*-(trans-2-dimethylaminocyclopentyl)propionamide and its *N*-demethyl metabolite in canine, by g.c., 10D94
- detmn. of digitoxin and digitoxigenin bis- and mono-digitoxoside in, by t.l.c. - r.i.a., 7D47
- detmn. of digitoxin in, r.i.a. for, 10D62
- detmn. of digoxin in, affinity-column-mediated immunometric, 10D61
- by automated and manual r.i.a., 9D44
- by enzyme immunoassay, 12D64
- by fluorescence polarization immunoassay, interference by protein in, 9D42
- by immunoassay, interference in, 6D60
- by r.i.a., interfering substance in, 8D35
- sources of error in, 4D79
- by r.i.a. and fluorescence polarization immunoassay, 9D43
- detmn. of 4,5-dihydro-5-methyl-4-oxo-5-phenylfuran-2-carboxylic acid in, by h.p.l.c., 10D109
- detmn. of 24,25-dihydroxycholecalciferol in, by h.p.l.c., 2D225
- by protein-binding assay, chromatographic sample preparation for, 4D291
- detmn. of 17 α ,21-dihydroxypregn-4-ene-3,20-dione in, by fluorescence polarization immunoassay, 4D196
- by fluoroimmunoassay, 4D199
- detmn. of dimenhydrinate in, by h.p.l.c., 6D114
- detmn. of dipeptidyl carboxypeptidase in, by colorimetry, 6D305
- detmn. of diphenylhydramine and orphenadrine in, by g.l.c., 5D88
- detmn. of direct bilirubin in, Technicon SMAC analyser in, 4D266
- detmn. of disopyramide and its mono-*N*-dealkylated metabolite in, by h.p.l.c., 10D100
- detmn. of doxorubicin in, by enzyme immunoassay, 8D41
- detmn. of drugs and proteins in, centrifugal analyser in, 4D10
- detmn. of drugs in, by EMIT, stability of calibration graph in, 4D71
- by EMIT with centrifugal analyser, 9D38
- by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
- by fluoro-immunoassay, with centrifugal analyser, 7D42

Blood serum, detmn. of drugs in,—continued

- by h.p.l.c., peroxide - oxalate chemiluminescence detection system for, 11J31
- by spectrometry or g.c., 1D38
- detmn. of elements in, by PIXE, 12D45
- detmn. of enolase β -subunit in, by immunoassay, 1D229
- detmn. of erythromycin in, by h.p.l.c., 11D54
- detmn. of ethanediol in, review, 6D137
- detmn. of ethanol in, spectrophotometric, 9D102
- detmn. of ethosuximide in, by fluoro-immunoassay, 2D66
- detmn. of 2-ethyl-3-oxohexanoic acid in, by g.c. - m.s., 4D154
- detmn. of fatty acids in, by g.l.c., 3D102
- by h.p.l.c., 9D126
- by h.p.l.c. after derivatization with 9-aminophenanthrene, 9D118
- by t.l.c., 6D161
- detmn. of ferritin in, by enzyme immunoassay, 10D212, 10D213
- by immunoassay, 1D174
- by r.i.a., improving accuracy of kits for, 9D214
- enzyme-linked immunosorbent assay kit in, 6D257
- inaccuracies in kits for, 10D209
- detmn. of fluorouracil and tegafur in, by g.l.c. with nitrogen-selective detection, 5D97
- detmn. of α -foetoprotein in, by enzyme immunoassay, solid support for, 12D195
- by first-antibody - enzyme zone immunoelectrophoresis, 6D255
- by zone immunoelectrophoresis, 3D196
- detmn. of α -foetoprotein in, immunofluorimetric, 2D206
- detmn. of folic acid in, by h.p.l.c., 6D73
- detmn. of follicle-stimulating hormone in, by r.i.a., 5D193
- detmn. of four steroids in, reference material for, 5D143
- detmn. of free amino-acids in avian, by h.p.l.c. and ion-exchange chromatography, 9D181
- detmn. of free drugs in, ultra-micro filtration in, review, 12D54
- detmn. of free hydrocortisone in, by ultra-filtration - r.i.a., 3D119
- detmn. of free phenytoin in, by ultra-filtration - fluorescence polarization immunoassay, 10D86
- detmn. of free thyroxine in, by r.i.a., kit for, 4D229
- by solid-phase immunoassay, 12D172
- inaccuracy of kit for, 10D172
- validity of Amerlex FT, assay, 4D230
- detmn. of free tri-iodothyronine in, by r.i.a., kits for, 9D189
- detmn. of fructose in, colorimetric, 10D119
- detmn. of galantamine in, by h.p.l.c., 2D89
- detmn. of gentamicin and tobramycin in, by EMIT, 6D66
- detmn. of gentamicin in, by fluoro-immunoassay with monoclonal antibody, 10D72
- by h.p.l.c., 8D39
- EMIT for, 5D55
- detmn. of glucose and urea-nitrogen in, dry film slides and reflectance photometer in, 12J108
- detmn. of glucose in, 1D87, 1D88
- analyser for, 8J9
- by continuous-flow amperometry, 5D115
- by enzymic flow-injection spectrophotometry, 5D116
- by enzymic reaction - g.l.c., 2D126
- by flow enthalpimetry, 8F51
- enzyme electrode in, 10J145
- reagent for automated enzymic, 12D112
- detmn. of γ -glutamyltransferase in, by r.i.a., 1D208
- detmn. of glycerol and triglycerides in, enzymic - electrometric, 10D136
- detmn. of glycerol in, enzymic, 3D97
- detmn. of glycosylated albumin and glycated total protein in, kit for, 10D183
- detmn. of gold in, by a.a.s., 3D15
- detmn. of growth hormone in, by enzyme immunoassay, 8D194
- detmn. of guanidino-compounds in, by automated cation-exchange h.p.l.c., 9D168
- detmn. of haemoglobin in, by colorimetry, 6D271
- by direct spectrophotometry, 12D201
- detmn. of halogenated biphenyls in, by g.l.c., quality control of, 8D93
- detmn. of haloperidol in, by g.l.c., 12D80
- detmn. of haptoglobin and haemoglobin - haptoglobin complexes in, by double-decker "rocket" immunoelectrophoresis, 6D251
- detmn. of haptoglobin in, spectrophotometric, 9D210
- detmn. of heparan sulphate in, by laser nephelometry, 10D122
- detmn. of high-density-lipoprotein cholesterol in, 8D127
- detmn. of human chorionic gonadotrophin in, by fluoro-immunoassay, 3D197
- by sandwich enzyme immunoassay, 11D208
- detmn. of human placental protein 14 in, by r.i.a., 8D205
- detmn. of hydrocortisone in, by affinity chromatography - h.p.l.c., 4D193
- by h.p.l.c., 5D152
- by h.p.l.c. following solid-state extraction, 4D197
- by isotope-dilution m.s., 12D137
- by isotope-dilution m.s. and r.i.a., 7D149
- by polarization fluoro-immunoassay, 5D155
- by r.i.a., 3D121
- detmn. of 25-hydroxy- and 1,25-dihydroxy-ergocalciferol in, by r.i.a. and protein-binding assay, 12D220

Blood serum—continued

- detmn. of 25-hydroxy- and 1,25-dihydroxy-vitamin D in, by h.p.l.c., extraction method for, 8D222
- detmn. of 12 α -hydroxy-bile acids in, bioluminescent, 3D123
- detmn. of 3 α -hydroxy-bile acids in, by bioluminescence assay with immobilized enzymes, 9D150
- colorimetric - enzymic, 9D149
- detmn. of erythro-9-(2-hydroxy-3-nonyl)hypoxanthine in, by r.i.a., 3D78
- detmn. of 3'-hydroxypentobarbitone in, by h.p.l.c., 2D60
- detmn. of 17-hydroxyprogesterone and 11-deoxyhydrocortisone in, by h.p.l.c., 10D145
- detmn. of hymecromone and its conjugates in, by h.p.l.c., 7D84
- detmn. of hypoxanthine and xanthine in, by h.p.l.c. with enzyme reactors, 5D226
- detmn. of ibuprofen in, by g.l.c., 12D78
- detmn. of IgE in, by rate nephelometry, 2D199, 2D200
- detmn. of immunoglobulin E in, by enzyme immunoassay, 5D206
- by r.i.a., 2D197
- review, 7D199
- detmn. of immunoglobulin M in, by enzyme immunoassay, 3D204
- detmn. of immunoglobulins in, automated immunoturbidimetric, 10D214
- by affinity chromatography, 3D200
- by immunoturbidimetry, 5D203
- detmn. of insulin in, by r.i.a., 4D235, 5D190
- stabilization of immunoreactivity at ambient temp. in, 2D182
- detmn. of insulin in human, by sandwich enzyme immunoassay, 8D196
- detmn. of ionized calcium in, automated, 6D32
- Donnan effect in automated, 3D18
- with ion-selective electrode, effects of pH and sodium chloride on, 9D22
- detmn. of iron and iron-binding capacity in, by automated colorimetry, 4D61
- detmn. of iron in, by automated analysis, 12D52
- by flotation extraction - spectrophotometry, 12D53
- by radioassay, 10D47
- ferene in spectrophotometric, 12B140
- ferene-S and ferrozine in spectrophotometric, 9D36
- from renal dialysis patients, by spectrophotometry, 1D34
- in presence of nickel and copper, by spectrophotometry, 1B120
- reagent for spectrophotometric, 2D47
- detmn. of isoniazid and its acetyl derivative in, by h.p.l.c., 12D94
- detmn. of isoniazid and rifampicin in, by h.p.l.c., 6D118
- detmn. of ketoconazole in, by h.p.l.c., 8D81, 11D101
- detmn. of labetalol in, by h.p.l.c., 8D65
- detmn. of lactate in, by potentiometry, electrode for, 9J137
- centrifugal analyser in kinetic enzymic, 4D158
- detmn. of lignocaine and its glycine-2,6'-xylidide metabolites in, by h.p.l.c., 4D114
- detmn. of lignocaine and metabolites in, by h.p.l.c., 11D84
- detmn. of lignocaine in, by h.p.l.c., 2D86
- detmn. of lipids in, by i.r. spectrophotometry with least-squares analysis, 4D167
- detmn. of lipoprotein A in, stability of standard preparation for, 4D265
- zone immunoelectrophoretic, 6D266
- detmn. of lipoproteins, cholesterol and triglycerides in, review, 12D196
- detmn. of lithium, copper and zinc in, by ICP a.e.s., 1D17
- detmn. of lithium in, by spectrophotometry, 2D12
- detmn. of liver ferritin in, by immunoradiometric assay, 3D203
- two-site immunoradiometric, 8D203
- detmn. of α_2 -macroglobulin in, substrate for enzymic, 1D172
- detmn. of magnesium and zinc in, by a.a.s., sampling tubes for, 2D19
- detmn. of magnesium in, by colorimetry, centrifugal analyser in, 7D23
- centrifugal analyser in, 9D21
- interference by bilirubin in automated, 1D16
- magnesium-26 in m.s., 12D20
- detmn. of mannose in, enzymic, 9D107
- detmn. of maprotiline and *N*-desmethylmaprotiline in, by h.p.l.c., 3D59
- detmn. of metals in, by flow injection - ICP a.e.s., 10D20
- detmn. of methotrexate in, by enzyme immunoassay, 8D86
- detmn. of 2-methoxyoestrogens in, by r.i.a., 8D137
- detmn. of metoclopramide in, by h.p.l.c., 10D104
- detmn. of mexiletine and its metabolites in, by h.p.l.c., 2D95
- detmn. of mexiletine in, by h.p.l.c., 9D82
- detmn. of mitomycin in, by h.p.l.c., 10D75
- detmn. of myoglobin in, by chemiluminescent immunosorbent assay, 10D200
- by r.i.a., 9D206
- detmn. of naloxone in, by r.i.a., 6D76
- detmn. of nandrolone in, by r.i.a., 9D56
- detmn. of netilmicin in, immunoassay kits for, 11D55
- detmn. of nifedipine in, by g.c., 3D66
- by h.p.l.c., 1D59
- detmn. of nomifensine in, by h.p.l.c. and g.l.c., 2D82
- detmn. of norethisterone in, by r.i.a., 9D139
- detmn. of oestradiol in, by direct r.i.a., 6D191, 12D139
- detmn. of 17 β -oestradiol in, by direct r.i.a., 6D190
- by r.i.a., 12D142

Blood serum—continued

- detmn. of oestriol in, by h.p.l.c., 2D153, 12D141
- of pregnant women, by chemiluminescence, 9D137
- detmn. of oestrogens, androgens and progestogens in, by h.p.l.c., 4D186
- detmn. of oestrone in porcine, by enzyme immunoassay, 5D145
- detmn. of olitipraz in, by g.l.c., 9D92
- detmn. of organic acids in, review, 7D22
- detmn. of orosomucoid and digoxin in, by enzymic assay - liquid chromatography, 5D9
- detmn. of 2-oxo-acids in, by h.p.l.c., as quinoxalinol derivatives, 8D113
- detmn. of 17-oxosteroid sulphates in, by h.p.l.c., 12D138
- detmn. of oxygenated sterols in, by g.l.c., 5D142
- detmn. of paracetamol in, kit for, 5D63
- with discrete analyser, 2D76
- detmn. of parathyroid hormone in, enzymic, 5D195
- detmn. of PCB and DDE in, by extraction - g.c., 10D113
- detmn. of PCB and other chlorinated hydrocarbons in, by g.l.c., 8D101
- detmn. of PCB in, by g.l.c., 2D118
- by g.l.c. with e.c.d., 8D102
- detmn. of penicillins and cefotaxime in, by h.p.l.c., 9D46
- detmn. of 1,3,3,5,5-penta-aziridino-1,2,4,6,3,5-thiatriazadiphosphorine 1-oxide in, by g.l.c., 12D99
- detmn. of pentobarbitone in, by EMIT immunoassay, 6D74
- by enzyme immunoassay, 11D64
- by fluorescence polarization immunoassay, 9D58
- by h.p.l.c., 7D57
- detmn. of phenobarbitone, phenytoin, carbamazepine and theophylline in, Abbott TDx system for stat, 11D38
- detmn. of phenobarbitone and phenytoin in, rate-nephelometric, 6D79
- detmn. of phenylalanine and tyrosine in, by h.p.l.c., 8D166
- kinetic spectrophotometric kit for, 10D169
- detmn. of phenylalanine in, by h.p.l.c., 7D172
- enzymic, 9D185
- detmn. of phenylpropanolamine in, by h.p.l.c., 4D115
- detmn. of phenytoin, carbamazepine and valproic acid in, by enzyme-multiplied immunoassay, 4D88
- detmn. of phenytoin and phenobarbitone in, simultaneous, by fluoro-immunoassay, 1D48
- detmn. of phenytoin in, by EMIT, 12D75
- by fluoro-immunoassay, 3D46
- detmn. of phenytoin in human, by homogeneous immunoassay with avidin conjugate, 9D59
- detmn. of phosphate, sulphate, bromide and nitrate in, by ion chromatography, 2D37
- detmn. of phosphatidylcholine and sphingomyelin in, by t.l.c. - densitometry, 1D181
- detmn. of phospholipids in, by flow-injection amperometry, 5D136
- detmn. of *trans*-phytonadene in, by h.p.l.c., 3D239
- detmn. of platinum-based chemotherapeutics in, by liquid chromatography with electrochemical detection, 5D99
- detmn. of platinum in, by a.a.s., 5D38
- detmn. of polyamines in, by h.p.l.c., 6D203
- by ion-exchange chromatography, 4D212
- detmn. of polyhydric alcohols in, by g.c. - m.s., 6D152
- detmn. of potassium, sodium, chloride and calcium in, electrode system for, 6D30
- detmn. of potassium in, by potentiometry with valinomycin-based membrane electrode, 1D14
- detmn. of praziquantel in, by h.p.l.c., 2D105
- detmn. of prednisolone in, by r.i.a., 1D54
- prevention of protein binding in, 6D72
- detmn. of prednisone and prednisolone in, by liquid chromatography, sample extraction for, 7D54
- detmn. of pregnancy-associated plasma protein A in, by enzyme immunoassay, 1D157
- by two-site enzyme immunoassay, 6D263
- detmn. of primary bile acids in, by bioluminescence with immobilized enzymes, 9D145
- detmn. of primidone in, by fluoro-immunoassay, 1D50
- detmn. of procainamide and *N*-acetylprocainamide in, by fluoro-immunoassay, 12D72
- by t.l.c., 6D110
- detmn. of procainamide and its *N*-acetyl metabolite in, by h.p.l.c., 9D86
- detmn. of progesterone, cyclic AMP, cyclic GMP and IgG in, by chemiluminescent energy-transfer immunoassay, 4D6
- detmn. of progesterone in, by r.i.a., kit for, 9D141
- errors in kit for, 10D144
- detmn. of prolactin in, by two-site immunoradiometric assay, 7D194
- detmn. of propantheline in, by h.p.l.c., 11D90
- detmn. of propranolol enantiomers in, by h.p.l.c., 11D88
- detmn. of propylthiouracil in, by micro h.p.l.c., 7D94
- detmn. of prostaglandins and thromboxane in, by g.c. - m.s., 6D166
- detmn. of α_1 -proteinase inhibitor in, by size-exclusion chromatography, 2D235
- detmn. of proteins and drugs in, immunochemical, automated analyser for, 12J9
- detmn. of proteins in, biuret reaction in automated spectrophotometric, 3D173

Blood serum, detmn. of proteins in,—continued

- by biuret method, interference by dextran in, 12D180
- by chemiluminescence, 2D194
- by electrophoresis, computerized diagnosis from results of, 6D243
- computer program for, 6D234
- effect of 2-mercaptoethanol on, 10D184
- by r.i.a., inter-laboratory study of, 2D195
- calibration of automated analyser in, 5D197
- detmn. of pro-vitamin A in, by h.p.l.c., 12D218
- detmn. of pyridoxal 5'-phosphate in, enzymic, 9D243
- detmn. of pyromecaine and trimecaine in, by g.l.c., 12D88
- detmn. of quinidine, procainamide, *N*-acetylprocainamide and disopyramide in, by h.p.l.c. and enzyme-multiplied immunoassay, 4D118
- detmn. of quinidine in, by extraction then fluorimetry, t.l.c. or h.p.l.c., 5D48
- by t.l.c. - fluorescence densitometry, 7D43
- fluorimetric, 12D56
- detmn. of quinine in, by h.p.l.c., 7D44
- detmn. of retinoids in, by h.p.l.c., 8D220
- detmn. of retinol-binding protein in, by enzyme-linked immunosorbent assay, 4D250, 8D195
- detmn. of retinol in, by h.p.l.c., 8D221
- by h.p.l.c. - fluorimetry, 1D194
- by t.l.c., 9D241
- detmn. of ritodrine in, by h.p.l.c., 9D76
- detmn. of rubidium in, by m.s., 3D14
- detmn. of salicylate in, enzyme electrode for, 12J165
- detmn. of salicylic acid in, by enzyme-multiplied immunoassay, 4D99
- interference in Trinder method for, 1D51
- detmn. of selenium in, by electrothermal a.a.s., 9D34
- by graphite-furnace and hydride-evolution a.a.s., 4D56
- detmn. of sodium and potassium in, by flow-injection analysis - a.a.s., 12D19
- by ion-selective electrode, 10D19
- ion-selective-electrode analyser for, 9D18
- with microprocessor-controlled ion-selective electrodes, 7D19
- detmn. of sodium in, by potentiometry, electrode for, 2D13
- 12-crown-4 in extraction - spectrophotometric, 9B18
- electrode for, 6J175
- detmn. of somatotrophin in, by particle-counting immunoassay, 12D186
- detmn. of steroids in, by g.l.c. and g.l.c. - m.s., 6D184
- detmn. of streptomycin in, by fluorescence polarization immunoassay, 5D54
- detmn. of strontium in, by a.a.s., 5D20
- detmn. of β -sub-unit of chorionic gonadotrophin in, by enzyme immunoassay, 12D194
- detmn. of sulphasalazine and sodium azodisalicylate in, by h.p.l.c., 9D75
- detmn. of sulphonamides in, by t.l.c., 4D124
- detmn. of sultopride in, by h.p.l.c., 9D65
- detmn. of Tamm-Horsfall-like glycoprotein in, by r.i.a., 5D208
- detmn. of testosterone in, by r.i.a., 4D190
- detmn. of 3,3',4,4'-tetrachlorobiphenyl in rat, by g.l.c., 5D109
- detmn. of tetracyclic antidepressants in, by h.p.l.c., 4D108, 4D109
- detmn. of theophylline, diprophylline and proxiphylline in, by h.p.l.c., 4D74
- detmn. of theophylline and antidepressants in, by h.p.l.c., automated sample preparation and injection for, 4J19
- detmn. of theophylline and 2-carbamoylphenoxyacetic acid in, by h.p.l.c., 3D34
- detmn. of theophylline in, by competitive nephelometric inhibition immunoassay, 4D77
- by Du Pont *aca* method, 12D61
- by fluorescence immunoassay, 6D56
- by fluorescence polarization, interference in, 4D78
- by h.p.l.c., 10D60
- by immunoassay, interference in commercial methods of, 4A5, 4D75, 4D76
- by modified kit r.i.a., 10D59
- fluorescence polarization immunoassay analyser in, 7D45
- detmn. of thiamine in, by h.p.l.c., 6D288
- detmn. of thiopentone and pentobarbitone in, by h.p.l.c., 1D47
- detmn. of thiopentone in, by g.c., 8D60
- t. h.p.l.c., 3D64
- detmn. of thyropoietin in bovine, by r.i.a. and ELISA, 12D175
- detmn. of thyroglobulin in, immunoassays for, 8D204
- detmn. of thyroid hormone in, absorbers for, 1D147
- detmn. of thyrotrophin in, by r.i.a., 4D257
- kits for, 9D215
- detmn. of thyroxine-binding globulin in, by enzyme immunoassay, 1D163
- detmn. of thyroxine in, accuracy of r.i.a. kit for, 3D154
- autoantibody interference in kit for, 10D175
- by isotope dilution - mass spectrometry, 7D177
- by r.i.a., 3D151
- interference by auto-antibodies in, 1D145
- by r.i.a. with ethacridine, 6D224
- by "unbound analogue" r.i.a., 1D146
- effect of heparin on kits for, 11D178

Blood serum, detmn. of thyroxine in,—continued

- SPIRIA kit in, 12D170
- detmn. of tiquizium bromide in, by h.p.l.c., 10D98
- detmn. of tobramycin, phenobarbitone and theophylline in, by homogeneous immunoprecipitation, 2D50
- detmn. of α -tocopherol in, indirect spectrophotometric, 10D245
- detmn. of total triglycerides in, enzymic - spectrophotometric, 9D133
- detmn. of trace elements in, by ICP a.e.s., 12D13
- by PIXE, 5D36
- by XRF, 5D15
- detmn. of transcortin in, by r.i.a., 10D198
- detmn. of transferrin in, by kinetic nephelometry, 8D206
- detmn. of transferrin variant in, by isoelectric focusing in presence of carbamoylated myoglobins as coloured markers, 10D205
- detmn. of trapidil in, by h.p.l.c., 5D81
- detmn. of triazolam in, by polarography, 7D66
- detmn. of tricyclic antidepressants in, by g.l.c., 6D100
- by h.p.l.c., 4D107
- detmn. of triglycerides in, by colorimetry, 1D105
- detmn. of tri-iodothyronine and thyroxine in, by r.i.a., 4D228
- by r.i.a. and equilibrium dialysis, 12D171
- detmn. of tri-iodothyronine in, by r.i.a., 3D152
- interference by autoantibodies in, 8D173
- detmn. of ubiquinone 10 in, by h.p.l.c., 12D245
- detmn. of unbound hormones in, effect of sample dilution on, 8D142
- detmn. of unbound oestradiol in, by ultra-filtration, 10D147
- detmn. of uraemic toxins in, by h.p.l.c., 12D147
- detmn. of urate in, automated, 6D283
- by h.p.l.c., 10D241
- detmn. of urea in, by isotope-dilution m.s., 12D150
- by potentiometry as ammonium ion after reaction with urease, 4D206
- microwave cavity ammonia monitoring in, 2D161
- spectrophotometric, 3D129
- detmn. of uric acid in, by h.p.l.c., 5D227, 6D284, 7D227, 7D228
- by Hycel BMD method, interference by bilirubin in, 12D213, 12D214
- detmn. of valproic acid in, by EMIT, 10D87
- by enzyme-multiplied immunoassay, ultra-filtration in, 1D49
- by g.c. - m.s., 11D68
- by g.l.c., 6D81
- detmn. of vanadium in, by electrothermal a.a.s. and d.c. plasma a.e.s., 12D41
- detmn. of vancomycin in, by fluorescence polarization immunoassay, 4D83, 10D76
- by h.p.l.c., 11D56
- by r.i.a. and fluorescence polarization immunoassay, 10D73
- detmn. of verapamil in, by h.p.l.c., 2D94
- detmn. of volatile fatty acids in, by g.l.c., 5D125
- detmn. of zinc in, 1D20
- by a.a.s., 9D24
- by flame a.a.s., 11D17
- by flameless a.a.s., 4D37
- by flow-injection analysis - a.a.s., 10D30
- extraction of bile acids from, with Sep-Pak C₁₈ cartridges, 4D202
- extraction of local anaesthetics from, by adsorption on C₁₈ silica gel, 10D97
- fractionation of lipoproteins in, 5D211
- identn. of drugs in, by g.l.c. and t.l.c., 5D40
- identn. of indole derivatives and fluorescent compounds in uraemic, by h.p.l.c., 1D122
- identn. of phytanic acid in, by g.l.c., 9D116
- identn. of propafenone metabolite in, by g.l.c. and g.c. - m.s., 5D82
- identn. of valproic acid metabolites in human, by g.c. - m.s., 7D59
- pptn. of low-density lipoproteins from, 2D210
- sepn. of benzodiazepines from anticonvulsants in, by g.l.c., 2D80
- sepn. of creatine kinase MB and BB and lactate dehydrogenase LD₁ in, 4D312
- sepn. of *cis*-diol ribonucleosides in, by affinity chromatography - h.p.l.c., 7D223
- sepn. of globulins in, by high-voltage electrophoresis, 5D205
- effect of storage on, 5D201
- sepn. of hydrophilic and hydrophobic forms of γ -glutamyltransferase of, by hydrophobic chromatography, 11D240
- sepn. of proteins in, by electrophoresis, microcomputer-based densitometer for, 12D185
- by electrophoresis on agarose-coated transparent tape, 4D242
- by gel electrophoresis, review, 1J40
- by h.p.l.c., 3D202
- Board**, measurement of pH of aq. extracts of, 4C80
- Boilers**, analysis of fire-side deposits in, 6B178
- Boll weevils**, detmn. of ecdysteroids and juvenile hormones in, by h.p.l.c., 7D141
- Bone**, analysis of, purification of matrix standard for, 1A6
- detection of aluminium in, 9D27
- detmn. of beryllium in, by graphite-furnace a.a.s., 1D15
- detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
- detmn. of carbonate in, by acidification - g.c., 10D37
- detmn. of copper in camel, spectrophotometric, 8D19
- detmn. of lead in, by XRF, 6D41
- dry-ashing losses in, 10D38

Bone—continued

- detmn. of mineral content of, *in vivo*, by coherent/Compton scattering, 7D25
- detmn. of trace elements in, by ICP a.e.s., 2D10
- interference by calcium in, 3D25
- detmn. of uranium and plutonium in, by α -spectrometry, 10D36
- detmn. of uranium isotopes in, 7D29
- Bone marrow**, detmn. of cefsulodin and cefotiam in blood of, by h.p.l.c., 3D40
- Bone-meal**, detmn. of lead in, by differential pulse anodic-stripping voltammetry, 2G10
- Books**, identn. of pigments in, by Raman laser micro-probe, 10C83
- Borane, dichloro-**, detmn. of, in gaseous mixtures, by coulometric titrimetry, 9B52
- Borate**, detmn. of, in presence of phosphate, titrimetric, 7B52
- segmentation in ring-oven fluorimetric, 9J105
- , **tetrafluoro-**, detmn. of, by direct potentiometry, 8B42
- , **tetraphenyl-**, detmn. of, by spectrophotometry, 1C18
- by titrimetry, 8C38
- Borates**, detmn. of, in chipboard, by t.l.c., 2C63
- Bordeaux mixture**, analysis of, by X-ray diffraction and thermal analysis, 2G22
- Boric acid**, detmn. of, in ammonium chloride zinc-plating electrolytes, by spectrography, 1B37
- in cooling waters, by continuous conductometry, 4J175
- in food, by spectrophotometry, 8F3
- in natural rubber latices, 8C92
- in pharmaceutical preparations, spectrophotometric, 9E63
- detmn. of chloride in, ion-chromatographic, 9B55
- detmn. of trace metals in, by resin concentration - ICP spectrometry, 8B11
- detmn. of traces of iron in, by a.a.s., 5B73
- extraction of, from radioactive waste, with alkanols, 5B72
- Boric oxide**, detmn. of, in silicate linings, by spectrophotometry, 5B139
- Borides**, detmn. of, in aluminium, by electron-probe micro-analysis, 7B55
- detmn. of boron in, by a.a.s., rapid dissolution method for, 11B39
- Boron**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
- detmn. of, by activation with heavy ions, review, 12B10
- by isotope-dilution m.s., 8B43
- by α -particle-induced γ -ray emission, 5B10
- by pH-difference measurement, 1B41
- by scattering of combination X-ray lines, 8B7
- by thermal-ionization m.s. as metaborate, 6B64
- in aluminium, by ICP a.e.s., 6B69
- in aluminium ammonium alum, 9B61
- in biological materials, alkali-fusion method for spectrophotometric, 12D32
- in borosilicate glass, by n.a.a., 5B282
- in calcium oxide, spectrographic, 11B32
- in coal ash and geological materials, by spark optical-emission spectroscopy, 5B18
- in copper alloys, by spectrophotometry, 1B21
- in europium-doped barium magnesium aluminate, 11B170
- in geological materials, by α -particle bombardment - prompt γ -ray spectrometry, 9B175
- in glass, by n.a.a., 4J155
- in highly alloyed cobalt, iron and nickel, by a.a.s., 12B137
- in implanted silicon and glasses, by thermal-neutron depth profiling, 12J137
- in metals, by ICP a.e.s., 11B40
- in minerals, by ion-selective electrode, 5B71
- in phosphate rock reference material, 5A16
- in sea-water, crystal violet in spectrophotometric, 7H37
- in semiconductors, by n.a.a., 2B92
- in silicon-containing surface coatings, 9B90
- in soil and biological materials, by ICP a.e.s., 10D17
- in soln., by solid-state track detection, 6B65
- in standard tetramethylammonium tetraphenylborate, 9A15
- in steel, by column chromatography - a.a.s., 1B125
- by spectrophotometry or potentiometry, 6B161
- in steel and alloys, by spectrophotometry, 1B128
- in steel and Nimonic alloys, by ICP a.e.s., 6B160
- in steel and water, by ion-pair chromatography, 7B51
- in steel or plant material, spectrophotometric, 8B44
- in washing powders, titrimetric, 7C69
- in waste water, ion-selective electrode in, 5H90
- in water, by extraction - spectrophotometry, 1B42
- by fluorimetry in continuous-flow system, 4H61
- spectrophotometric, 12B53
- rapid dissolution of borides for, by a.a.s., 11B39
- sample decomposition and pre-concentration in, review, 7B1
- detmn. of fluoroboric acid in, by ion chromatography, 7J46
- detmn. of gaseous and particulate, in air, 6H18
- detmn. of isotopes of, in salt-lake water, by m.s., 7H36
- detmn. of metal impurities in, by ICP a.e.s., 7B54
- extraction of, from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
- 2-hydroxymethyl-2-propylpentan-1-ol in, 9B53
- Boron-10**, detmn. of, in absorption elements of nuclear reactors, 4B72
- Boron carbide**, detmn. of fluoride in, by ion-selective potentiometry, 7B64

- Boron compounds**, detmn. of metal impurities in, by ICP a.e.s., 7B54
- Boron fluoride (BF₃)**, identn. of complex of, in cured epoxy-resins, by computerized i.r. spectrometry, 8C87
- Boron nitride**, detmn. of trace carbon, hydrogen and oxygen in, by elastic recoil detection, 12B14
- Boron trifluoride etherate**, detmn. of, in chloroethyl soln., by potentiometry, 9B54
- Boroxines**, identn. of, in cured epoxy-resins, by computerized i.r. spectrometry, 8C87
- Bradykinin**, detmn. of, and its metabolites, by h.p.l.c., 11D179
- , **[des-Arg⁹]**, detmn. of, by r.i.a., 5D188
- Brain**, analysis of catecholamine and indolamine degradation products of, by h.p.l.c., 5D164
- assay of amine oxidase (flavin-containing) in, spectrophotometric, 8D236
- assay of cholinesterases in rat, by micro-fluorimetry, 4D319
- assay of 2':3'-cyclic-nucleotide 3'-phosphodiesterase in rat, by t.l.c. - fluorimetry, 10D259
- assay of tryptophan 5-monooxygenase in stem of, radiometric, 3D252
- detection of amines, amine-related drugs and neuropeptides in, by h.p.l.c. or micro-electrodes, review, 5D172
- detection of Phe-Met-Arg-Phe-amide-like immunoreactive peptides in rat, by r.i.a., 2D189
- detection of proteins of, by immuno-detection of nitrocellulose blots after polyacrylamide gel electrophoresis, 10D188
- detmn. of amino-acid neurotransmitters in, by column chromatography - fluorimetry, 9D186
- detmn. of amino-acids in, by h.p.l.c. of phthalaldehyde derivatives, 6D215
- detmn. of aminophospholipids in, by h.p.l.c. with fluorescent label, 2D149
- detmn. of apomorphine in, by h.p.l.c., 8D64
- detmn. of arsenic in, by wet digestion - a.a.s., 5D31
- detmn. of 1-arylpiperazines in rat, by g.c., 9D63
- detmn. of biogenic amines in, by h.p.l.c., 8D147
- detmn. of catecholamines and indoles in rat, by h.p.l.c., 7D160
- detmn. of catecholamines and their metabolites in rat, by h.p.l.c., 6D205
- detmn. of catecholamines in, by h.p.l.c., 2D162
- by h.p.l.c. with electrochemical detection, 5D165
- detmn. of chlordiazepoxide and metabolites in, by h.p.l.c., 6D94
- detmn. of cholecystokinin tetrapeptide and cholecystokinin octapeptide sulphate in rat, by h.p.l.c., electrochemical detection in, 4D231
- detmn. of choline and acetylcholine in, by h.p.l.c., 9D167
- detmn. of creatine phosphate in, by h.p.l.c., 11D162
- detmn. of desipramine in, by h.p.l.c., 5D67
- detmn. of 3,4-dihydroxyphenylethanol in rat, by h.p.l.c., effect of sample storage on, 11D159
- detmn. of ethoheptazine in, by g.l.c., 6D85
- detmn. of halothane in, by head-space g.l.c., 8D62
- detmn. of histidine and histamine in, by luminescence, 4D225
- detmn. of 4-hydroxyamphetamine in, by h.p.l.c., 11D80
- detmn. of 4-hydroxy-3-methoxyphenylethanol sulphate in, by h.p.l.c., 11D158
- detmn. of 5-hydroxytryptamine and catecholamines in, by h.p.l.c., with electrochemical detection, 10D158
- detmn. of 5-hydroxytryptamine and related compounds in, by h.p.l.c., 2D168
- detmn. of indol-3-ylacetic acid in, by h.p.l.c. and g.c. - m.s., 11D156
- detmn. of lipids in, by t.l.c., 5D130
- detmn. of lorazepam in, by g.l.c., 6D94
- detmn. of ophthalmic and norophthalmic acids in mammalian, by h.p.l.c., 9D194
- detmn. of opioid peptides in, by r.i.a., 10D181
- detmn. of pipecolic acid in rat, by h.p.l.c., 8D167
- detmn. of salsolinol in, by g.l.c., 3D134
- detmn. of strontium in, by a.a.s., 5D20
- detmn. of taurine in, fluorimetric, 8D169
- detmn. of 3,3',4,4'-tetrachlorobiphenyl in rat, by g.l.c., 5D109
- detmn. of tryptamine in, by g.c. - m.s., 11D165
- detmn. of tryptamine in rat, by g.c. - m.s., 11D166
- detmn. of tryptophan in, by h.p.l.c. after conversion into 9-hydroxy-methyl- β -carboline, 4D224
- detmn. of tyrosine and related amines in rat, by h.p.l.c., 8D146
- detmn. of uric acid in, by h.p.l.c., 6D284
- detmn. of vasopressin in, by r.i.a., 2D190
- detmn. of vitamin B₆ compounds in, by h.p.l.c., 11D225
- identn. of alkenyl, alkylacyl and diacyl acetylglucosyls in, by h.p.l.c., 5D137
- identn. of peptides in, by h.p.l.c., 3D159
- sepn. of acidic amino-acids in, by ion-exchange chromatography and t.l.c., 7D173
- sepn. of adenine and adenosyl-sulphur compounds in, by h.p.l.c., 2D223
- sepn. of sphingoid bases from, by h.p.l.c., 10D133
- Bran**, detection of insect fragments in, colour test for, 10F26
- detmn. of dietary fibre in, 6F4
- detmn. of naphthalene in, by g.c., 10F16
- detmn. of non-starch polysaccharides in, 6F12
- detmn. of ochratoxin A in wheat, by h.p.l.c., 8F21

Bran—continued

- detmn. of phytic acid in, by h.p.l.c., 3F14
- Brandy**, detmn. of isobutyl alcohol, butanol and isopentyl alcohol in, by g.l.c., 8J52
- detmn. of phenols in matured, by g.l.c. as 2,4-dinitrophenyl ethers, 8F61
- by h.p.l.c., 8F62
- detmn. of tartaric acid in, colorimetric, 9F50
- Brass**, analysis of, by amperometry, 5B17
- detmn. of copper, nickel, cobalt and lead in, amperometric titrimetric, 10B13
- detmn. of copper in, by amperometry, 4B44
- detmn. of lead in, by a.a.s., 3B35
- detmn. of tin in, quercetin in spectrophotometric, 7B30
- Brazil nuts**, detmn. of radium-228 in, by measurement of Cerenkov radiation of actinium-228, 6B58
- Bread**, assay of α -amylase activity in, nephelometric, 6F31
- detmn. of maltose in, by h.p.l.c., 6F30
- detmn. of potassium bromate in, by ion exchange - colorimetry, 12F10
- detmn. of propionic acid and calcium and sodium propionate in, by g.c., 4F22
- detmn. of propionic acid in, by h.p.l.c., 7F35
- identn. of aroma compounds in rye, by chromatography, 4F23
- Bread improvers**, detmn. of, by i.r. spectrophotometry, 5F15
- Breakfast cereals**, detmn. of ascorbic acid and thiamine in, inter-laboratory, 10F4
- detmn. of sugars in, by h.p.l.c., 6F29
- Breath**, detection of Δ^9 -tetrahydrocannabinol in, by g.c. - m.s., 10D66
- detmn. of carbon monoxide in, by i.r. spectrometry, 10D227
- detmn. of compounds in, sampling device for, 8D94
- detmn. of ethanol in, interference by acetone in, 5D106
- detmn. of hydrogen and carbon monoxide in, by g.l.c., 4D28
- detmn. of hydrogen in, by g.c., interference by cigarette smoke in, 6D28
- by g.s.c., instrument for, 6D26
- effect of sample storage on, 8D15, 8D16
- detmn. of organic compounds in, 2H19
- detmn. of volatile sulphur compounds in, by g.c., 1D81
- Brewing materials**, analysis of, by near-i.r. spectrometry, 6F73
- rapid analysis of, by i.r. spectrophotometry, review, 6F72
- Brightening agents**, detmn. of fluorescent, in detergents, by h.p.l.c., 8C67
- Brine**, detmn. of ammonia in, ion-selective electrode in, 12B102
- detmn. of dissolved organic carbon in, absolute method for, 5H72
- detmn. of fluoride in, ion-selective electrode in, 3H52
- detmn. of molybdenum, vanadium and chromium in, by a.a.s., 4H64
- Brodifacoum**, detmn. of, in animal tissue, by h.p.l.c., 5D113
- by ion-pair h.p.l.c., 5D114
- in rodenticides, by h.p.l.c., 2G31
- in tissues, by h.p.l.c., 3D85
- Bromadiolone**, detmn. of, in animal tissue, by h.p.l.c., 5D113
- by ion-pair h.p.l.c., 5D114
- Bromanil**, detmn. of, by colorimetry, piperidine in, 4G35
- Bromate**, detmn. of, by non-suppressed ion chromatography, 8B15
- by spectrophotometry, 1B112
- in presence of iodate, titrimetric, 12B131
- 1,3,4-trihydroanthraquinone-2-carboxylic acid in spectrophotometric, 10B132
- Bromazepam**, detmn. of, in plasma, by h.p.l.c., 6D96
- in tablets, by a.a.s., 4E44
- Bromelain**, assay of, benzoyloxycarbonylphenylalanyl citrulline *p*-nitroanilide as substrate for, 10D256
- Bromide**, detection of, in ion chromatography, 7J47
- detmn. of, as pesticide residue in crops, by ion-selective electrode, 11G39
- by argentometry, indicator for, 4B23
- by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
- by ion chromatography, 4B32, 9J38
- by ion chromatography with electrochemical and conductometric detection, 7B104
- by molecular-absorption spectrophotometry, 7B110
- by non-suppressed ion chromatography, 8B15
- by potentiometry, ion-selective electrode for, 2B68
- by quenching of fluorescence, sensors for, 12B129
- in air-borne particulate matter, by ion chromatography, 5H28
- in ground water, by h.p.l.c., 1H36
- in halide mixtures, by controlled-potential pulsed-current potentiometric titration, 11J145
- in precipitation water, by ion chromatography, 12H42
- in presence of chloride, fluoride and iodide, argentimetric, 10B131
- in sea-water, by ion chromatography, 6H75
- in serum, by anion-exchange chromatography, 12D51
- by ion chromatography, 2D37
- in soil, by h.p.l.c., 10G9
- in water, 8H73
- by chemiluminescence, 6H76
- by g.c. after conversion into bromoform, 10H60
- enrichment method for, 7H52
- in water and effluents, by ion chromatography, automated, 12H43
- ion-selective electrodes for, 12J153

Bromide—continued

- detmn. of residues of, in cocoa beans, by h.p.l.c., 7F32
- sepn. of, from chloride, by ion-pair extraction, 6J10
- from other anions, by ion chromatography, optimization of non-suppressed, 8B16
- prediction of retention in non-suppressed, 8B17
- Bromides**, detmn. of, in chipboard, by t.l.c., 2C63
- Bromine**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
- by g.c., microwave-induced plasma for, 9J61
- detmn. of, by a.e.s. with ICP, 7B107
- by g.s.c., 4B139
- by molecular-absorption spectrophotometry of diatomic species, 9B136
- evolved from flame retardants, ion-selective electrode in, 11C68
- in air, by PIXE, 10H3
- in environmental materials, methods and computer program for, 12H4
- in erythrocytes and plasma of pregnant women, by PIXE, 12D17
- in glass, by potentiometric titration, 12B179
- in metal complexes, after combustion and selective trapping, 4C4
- in organic compounds, by ion chromatography after sodium fusion, 4C6
- in presence of chlorine, radiochemical, 8B106
- in semiconductors, by n.a.a., 5B286
- in serum, by n.a.a., 10D44
- by PIXE, 12D45
- in soln. with other halides, by fluorescence quenching, 5J110
- in water, by chemiluminescence, 6H76
- by n.a.a., 5H47
- instrumental, review, 7H29
- Bromine-75**, detmn. of, in radiopharmaceuticals, by h.p.l.c., 6E5
- Bromine-77**, detmn. of, in radiopharmaceuticals, by h.p.l.c., 6E5
- Bromine compounds**, detmn. of organic, in water, by g.c. - m.s., 10H75
- Bromine fluoride**, detmn. of, by g.s.c., 4B139
- Bromine pentafluoride**, detmn. of, by g.s.c., 4B139
- Bromine trifluoride**, detmn. of, by g.s.c., 4B139
- Bromoform**, detmn. of, in drinking water, xylene as extractant for, 7H61
- in water, by g.l.c., 10H73
- Bromophos**, detmn. of, in apples and pears, automated enzymic, 2F35
- in vegetables, automated, 5F39
- Bromoxynil**, detmn. of, by phosphorimetry, 5G32
- in barley, by h.p.l.c. with spectrophotometric or electrochemical detection, 9G22
- Bromoxynil octanoate**, detmn. of, in runoff water from wheat fields, by h.p.l.c., 11G29
- Bronze**, analysis of, by PIXE, calculation of uncertainties in, 5J77
- detmn. of aluminium in, by a.a.s., 10B37
- detmn. of beryllium in, methylthymol blue in spectrophotometric, 6B53
- detmn. of lead in, by a.a.s., 3B35
- detmn. of nickel in, by spectrophotometry, 5B244
- detmn. of phosphate in, by spectrophotometry or spectrofluorimetry, 5B166
- detmn. of zinc in, extraction - spectrophotometric, 11B34
- for making superconducting alloys, detmn. of niobium, neodymium, zinc and zirconium in, by XRF, 7B29
- Brotizolam**, detmn. of, in plasma, by g.l.c. and radioreceptor assay, 6D103
- Brucine**, detmn. of, by indirect polarography, 2E6
- in nux vomica, by first-derivative spectrophotometry, 10E10
- by h.p.l.c., 12E11
- identn. of, in illicit preparations, microcrystalline, 12E6
- sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
- Buffer solutions**, concept of and equation for "integral capacity" of, 9A12
- detmn. of hydrogen carbonate and carbon dioxide in, enzymic - spectrophotometric, 3A5
- standard pH values for, 4A7
- two-stage ionization, two-phase systems of, 3A4
- Building materials**, detection of chrysotile in, by dye binding - fluorescence, 4B196
- detmn. of metals in, by flame a.a.s., 11B3
- detmn. of radon released from, by scintillation counting, 10H15
- Buphenine hydrochloride**, detmn. of, in pharmaceutical preparations, molybdo-phosphoric acid in spectrophotometric, 11E19
- Bupivacaine**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Bupleuri radix**, detmn. of saponins of, by h.p.l.c., 3E14
- Bupranolol**, sepn. of, in Cardiotensin, by h.p.l.c., 12E36
- Busulphan**, detmn. of, in plasma, by g.c. - m.s. with selected-ion monitoring, 5D98
- by g.l.c., 6D123
- Buta-1,3-diene**, detmn. of, in feedstock for production of synthetic rubber, by g.l.c., 8C95
- detmn. of water in, by g.c., 5B29
- , **hexachloro-**, detmn. of, in blood, by g.l.c., 7D104
- Butane**, detection of, in air at hazardous-waste sites, sampler for, 5H6
- detmn. of, in gases, semiconductor sensors for, 4J7
- detmn. of methanol in liquid, by g.c., 7C58
- , **N-(3-aminopropyl)-N'-(2-carboxyethyl)-1,4-diamino-**, detmn. of, in urine, by capillary g.c., 12D160

- Butanol**, detmn. of, enzyme electrode and thermistor probe for, 7J132
in apple-juice concentrates and liqueurs, by g.l.c., 9F45
in brandy, by g.l.c., 8J52
- , **2-methyl-**, detmn. of, in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- , **3-methyl-**, detmn. of, in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- , **4-(N-nitrosobutylamino)-**, detmn. of, in urine, by h.p.l.c., 4D138
differential pulse polarographic, 10C26
- Butaperazine**, detmn. of, in plasma, by r.i.a., 8D53
- But-2-ene, hexabromo-**, detmn. of, in water, 5H78
- Butene derivatives**, detmn. of, in air, silver-treated zeolite for pre-concentration in, 8H22
- But-2-enoic acid, halo-, methyl ester**, sepn. of, by capillary-column g.c., 10C22
- , **3-methyl-**, detmn. of, in air, by g.c., 8H25
- , **ethyl ester**, detmn. of, in air, by g.c., 8H25
- Butocarbinoxim**, detmn. of, by g.c. - chemical-ionization m.s., 3G19
in plants and soil, by h.p.l.c., 4G39
- Butoflitolol**, detma. of, in biological fluids, by g.c. and h.p.l.c., 7D76
- Butonate**, detmn. of, in rice, soil and water, by g.c., 7G34
- , **vinyl-**, detmn. of, in rice, soil and water, by g.c., 7G34
- Butoprozine**, detection of impurities in, by h.p.l.c., 2E35
- detmn. of, and metabolites, by h.p.l.c. with on-line diode array spectrophotometric detection, 3D75
- Butorphanol tartrate**, detmn. of, by spectrophotometry and fluorimetry, 5E36
polarographic, 11E23
- Butoxy-groups**, detmn. of, in etherified melamine - formaldehyde condensates, by reductive iodination - g.l.c., 10C81
- Butter**, detection of beef suet in, by differential scanning calorimetry, 5F34
detmn. of, biacetyl in, by g.c. of head-space, 9F36
detmn. of fatty acids in, to predict rancidity, 7F66
detmn. of free fatty acids in, by g.l.c., 10F36
detmn. of moisture and salt in, on-line sensors in, 10F47
detmn. of retinol and α -tocopherol in, by h.p.l.c., 12F22
detmn. of sodium chloride in, cryoscopic, 6F54
detmn. of sodium in, by a.a.s., 7F65
detmn. of t-butylquinol in, by h.p.l.c., 9F17
- Butter fat**, detmn. of pesticide and PCB residues in, clean-up method for, 5F33
- Butyl alcohol, t-**, detma. of, by carbon-13 n.m.r., 7C15
- Butylamine**, titration of, coulometric generation of protons in, 4C25
- Butyramide, N-(4-ethoxyphenyl)-3-hydroxy-**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 12E35
- Butyrate, D-3-hydroxy-**, detmn. of, enzymic - spectrophotometric, 1D98
- 3-hydroxy-**, detmn. of, in blood, automated kinetic, 10D125
in serum, by spectrophotometry, 6D165
- Butyric acid**, detmn. of, by g.c., 3C14
in air, by g.l.c., stationary phases for, 8H23
in presence of other acids, by g.l.c., 8D115
in waste water, by g.l.c., 3H77
- , **4-amino-**, detmn. of, by m.s., 10D165
in brain tissue, by column chromatography - fluorimetry, 9D186
- , **2-chloro-, alkyl esters**, sepn. of, by g.l.c., 4C23
- , **3-chloro-, alkyl esters**, sepn. of, by g.l.c., 4C23
- , **4-chloro-, alkyl esters**, sepn. of, by g.l.c., 4C23
- , **chloro-, ester**, detmn. of, by g.c., 9C19
- , **cis-2,3-epoxy-3-phenyl-, ethyl ester**, detmn. of, as product of Darzens reaction, by g.c., 9C29
- , **trans-2,3-epoxy-3-phenyl-, ethyl ester**, detmn. of, as product of Darzens reaction, by g.c., 9C29
- , **2-halo-**, detmn. of, bacterial dehalogenases in enzymic, 2C20
- , **halo-, methyl ester**, sepn. of, by capillary-column g.c., 10C22
- , **3-hydroxy-**, detmn. of, in egg products, by g.l.c., as indicator of spoilage, 11F19
- , **polymer**, detmn. of, in bacterial cells, 4D155
- , **4-hydroxy-3-methyl-**, detma. of, in plasma, by g.c., 12D122
- , **2-hydroxy-4-(methylthio)-**, detmn. of, in poultry feed, 1G9
- , **3-methyl-**, detmn. of, by g.c., 3C14
in air, by g.l.c., stationary phases for, 8H23
in waste water, by g.l.c., 3H77
- , **3-methyl-2-oxo-**, detma. of, in plasma and urine, 4D162
- , **4-(N-nitrosobutylamino)-**, detmn. of, in urine, by h.p.l.c., 4D138
- , **2-oxo-**, detma. of, in plasma and urine, 4D162
- , **2-phenyl-**, detma. of, in plasma, by h.p.l.c. and g.l.c., 6D162
- Butyric acid alkenyl esters**, sepn. of, by g.c. on polar and non-polar capillary columns, 5C17
- Butyric acid alkyl esters**, sepn. of, by g.l.c., 4C23
- Butyric acid methyl ester**, detmn. of, by g.c., 9C19

C

- Cabbage**, detmn. of carbaryl residues in, spectrophotometric, 10F50
detmn. of metals in Chinese, by a.a.s., digestion methods for, 10F51
- Cactus**, detection of candicine chloride in, by laser desorption and m.s. - m.s., 3E7
- Cadaverine**, detmn. of, by h.p.l.c., 7D153

- Cadaverine**, detmn. of,—*continued*
in bacterial cultures, by g.c., 7D154
in biological fluids and cell extracts, by ion-exchange chromatography with detection by fluorescence or with ninhydrin, 4D212
in blood, by g.l.c., 6D202
in meat, by ion exchange and capillary g.c., 9F21
in raw fish and fish products, by h.p.l.c., 10F35
in serum and urine, by h.p.l.c., 6D203
in urine, by capillary g.c., 12D160
h.p.l.c. and enzymic, 9D171
in wine, by h.p.l.c., 5F52
- Cadmium**, analysis of, by extraction - spectrometry, 9B48
by extraction - spectroscopy, 9B50
concn. of traces of, by complexation with tiron and anion exchange, 5B23
detection of, by paper chromatography, 2B29
in presence of copper, ion-selective electrode in, effect of iminodiacetate in, 3B45
detmn. of, azobenzene-2,2'-diol in fluorimetric and spectrophotometric, 9B45
by a.a.s., 12B19
by a.a.s. after co-pptn. with naphthalene, 9B40
by a.a.s. with concentric-tube atomizer, 9B11
by a.a.s. with laser evaporation, matrix interference in, 11J88
by a.f.s. with tungsten-spiral atomizer, 10J102
by amperometry, 5B17
by anodic-stripping voltammetry, 6B17
automatic compensation for cathode area in, 3J118
sodium amalgamation in, 5J188
by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
by coulometric titration, 8B9
by e.s.r. spectrometry, 6B59
by flow-injection potentiometric stripping, 9J139
by flow injection - spectrophotometry, 12B26
by furnace atomic non-thermal excitation spectrometry, 6J135
by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
by g.c. as dialkylthiocarbamate chelates, 1B14
by polarography, as diethyldithiocarbamate complex, 6B60
by spectrophotometry with di-2-pyridyl ketone pyrimidin-2-ylhydraz-one, 4B16
by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
by titration, with quinoline-8-thiol and its methyl derivatives, 4B113
by voltammetry, effect of nitro-compounds and surfactants on, 7B13
erythrosine A and 1,4,8,11-tetra-aza-1,4,8,11-tetramethylcyclotetradecane in spectrophotometric, 8B38
fluorimetric, surfactants in, 8B14
in air, by differential pulse anodic-stripping voltammetry, 5H14
in air-borne dust, by anodic-stripping voltammetry, 12H17
in air-borne particulates, by flame a.a.s., 2H13
in air polluted by road traffic, 5H15
in alkali-metal chlorides, by a.a.s., 3B23
in atmospheric pptn., 8H54
in beef and bovine organs, by voltammetry, 12D37
in biological and environmental materials, by voltammetry, 12D24
in biological fluids, by a.a.s., review, 6J130
in biological materials, by a.a.s., 12A8
contamination in, 10D16
by extraction - h.p.l.c., 12D29
by isotope dilution - m.s., 12D27
in biota, by a.a.s., 12D108
in blood, by a.a.s., automation of, 9D29
by ICP a.e.s., sample treatment for, 12D30
by porous-layer electrochemistry, 7D21
liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
in blood and plasma, by a.a.s., 6D35
in bone, by ICP a.e.s., 2D10
in cadmium telluride, by distillation and polarography, 6B181
in calcium oxide, spectrographic, 11B32
in canned fish, by a.a.s., 7F46
in ceramic enamels, by spectrophotometry with 1-(2-pyridylazo)-2-naphthol and surfactant, 6C63
in ceramic materials, by ICP a.e.s., 7B155
in cereals and flour, by a.a.s., 5G2
in chicken, eggs and milk powder, by dry-ashing - a.a.s., 8F4
in coal, by a.a.s., digestion methods for, 4B198
by differential pulse polarography, 8B132
in Coca-Cola, by differential pulse anodic-stripping voltammetry, automated device for, 3F25
in crude oil, by a.a.s., 8C52
in Dutch cheese, by flameless a.a.s., 10F45
in eggs, by a.a.s., 2F22
in fish, by a.a.s., acid-extraction in, 7D27
in foods, by a.a.s., 7F5
by differential pulse anodic-stripping voltammetry, 10F1
in frozen cod, inter-laboratory study in, 4F32
in indium and tin, by stripping voltammetry, 6B75

Cadmium, detmn. of,—continued

in industrial wastes, by polarography, 5B12
 in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
 in iron artefacts, by n.a.a. and a.a.s., 11B14
 in kidney tissue, by XRF analysis *in vivo* with plane-polarized X-rays, 10D32
 in lake water, by anodic-stripping voltammetry, 8H48
 in liver, by a.a.s. carbon-rod atomizer for, 2D25
 in magnesium salts and zinc, by differential pulse polarography, 1B33
 in metals and salts, by extraction - differential pulse anodic-stripping voltammetry, 11B37
 in milk powder and biological materials, ashing method for voltammetric, 7F61
 in mineral products, by a.a.s., calculation of interference in, 7B46
 in mineral waters, by differential pulse anodic-stripping voltammetry, 2H34
 in natural waters, by differential pulse anodic-stripping voltammetry, 4H55
 in nickel and nickel-based alloys, by differential pulse anodic-stripping voltammetry, 9B157
 in orchard leaves, by ICP a.e.s., 5J99
 in ores or effluents, 1,3-bis-(4-nitrophenyl)triazene in spectrophotometric, 10B47
 in oyster tissue, by microcomputer-controlled graphite-furnace a.a.s., 5J92
 in paper and its products, by a.a.s., 10C74
 in particles, by laser micro-probe mass analysis, 11B38
 in phosphate rock reference material, 5A16
 in plants, by a.a.s. and emission spectrography, 5D24
 in potable water, by a.a.s., sampling and pre-concentration in, 9H38
 by stripping voltammetry, 5H49
 in presence of indium, by polarography, 1B38
 in presence of iron, by spectrophotometry, 4B153
 in presence of selenium and iodide, by anodic-stripping voltammetry, 9H45
 in river fish, by flameless a.a.s., 9F27
 in river water, by a.a.s. after extraction and by ICP a.e.s., 8H50
 by h.p.l.c., 7H32
 in roadside dust, by a.a.s., 3H5
 in rocks and soils, by emission spectrography, 7B47
 in sea-water, by a.a.s., 3H34
 by a.a.s. with second-surface atomization, 9J90
 by anodic-stripping voltammetry, 12H53
 electrode for, 6J187
 by extraction - a.a.s. and/or anodic-stripping voltammetry, 5H43
 by potentiometric stripping, 6H58
 review, 2H33
 in sediment, after digestion, by a.a.s., 5H50
 by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
 by cyclic stripping voltammetry, 2H38
 by Zeeman-effect a.a.s., 3H39
 in selenium, by n.a.a., 4B130
 in sewage and maize, by a.a.s. with d.c. plasma as atomizer, 4J109
 in silver, by polarography, 7B33
 in sodium chloride, by a.a.s., 2J76
 in soil, by a.a.s. after extraction, 5G11
 in soil and sewage-sludge-treated soil, by a.a.s., 5G9
 in solder, by titrimetry, 4B112
 in solid wastes, polarographic, 10H95
 in synthetic sea-water, by ICP a.e.s., 7B17
 in table salt, 8F49
 in tellurium, by n.a.a., 1B103
 in urban dust, by a.a.s., optimized extraction procedure for, 4H15
 in urine, by a.a.s., 2D23, 3D19, 8D22, 12D28
 by electrothermal a.a.s. with pyrometric feed-back, 9J95
 by flameless a.a.s., matrix modification in, 2D24
 by flow-injection spectrophotometry, 5D23
 in waste water, by polarography and anodic-stripping voltammetry, 3H72
 in water, by a.a.s. after pre-concentration on polyurethane foam, 8H49
 by a.a.s. with ion flotation, 7H34
 by a.e.s. with toroidal microwave-induced plasma, 11J92
 by anodic-stripping voltammetry, optimization of, 3B43
 by n.a.a., 6H47
 by radioisotope dilution, 2H43
 by solvent extraction - a.a.s., 1H27
 in estimation of pollution potential of oil shale, 1C25
 stabilization of samples for, 1H25
 in water and waste water, decomposition of organic matter in, 12H50
 in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodiithioate, 7B44
 in zinc sulphate electroplating soln., by h.p.l.c., 4B67
 in zirconium, by ICP a.e.s., 10B91
 masking agent for spectrophotometric, 2B28
 2-methyl-4-(2-thiazolylazo)resorcinol as indicator in titrimetric, 10B21
 1,10-phenanthroline and cadion in spectrophotometric, 5B15
 polarographic, 9B47

Cadmium, detmn. of,—continued

pulse voltammetric, superposition principle in, 12A17
 quinolin-8-ol in spectrophotometric, 10B49
 simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
 simultaneously with thallium and lead, by stripping chronopotentiometry, 11J19
 sodium 1,2-naphthoquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
 spectrophotometric, 10B48
 review, 3B18
 5,10,15,20-tetrakis-(4-trimethylammonio-phenyl)porphine in spectrophotometric, 10B46
 detmn. of copper in, by a.a.s., 1B39
 detmn. of metallic, in cadmium azide, by potentiometry, 4B68
 detmn. of thallium in, by flameless a.a.s., 5B67
 detmn. of trace, by thermal-ionization m.s., direct electro-deposition in, 11J110
 extraction - spectrophotometric, 9B21
 in food and biological reference materials, by n.a.a., 9F4
 in high-purity indium, polarographic, 9B65
 in liver, by a.a.s., 9D20
 in serum and liver, by a.a.s., 9D19
 in water, by a.a.s., 6B25
 Rhodamine B and iodide in spectrophotometric, 7B45
 extraction of, as thiocyanate complexes, 4B66
 from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
 from ceramic ovenware, by hot acetic acid, 4F1
 from river water, by flotation, 4H52
 from sediment and soil, effect of extractant pH on, 12H48
 from water, by adsorption on iminodiacetic acid - cellulose, 2H31
 by Aliquat-336, 12B50
 tall oil and pyridine in, 12B25
 with dithiocarbamates, 6B22
 reactions of, with 4-(2-pyridylazo)resorcinol and hexadecylpyridinium chloride, 12B51
 sepn. of, from manganese, by ion exchange on stannic arsenoantimonate, 9B139
 from other bivalent cations, by chromatography on zirconium molybdate, 3B2
 from other metals, by cation-exchange chromatography, 3B44
 sepn. of radiotracers of, by h.p.l.c., 10B19
 speciation of, in water, by Donnan dialysis, 12H52
Cadmium-113m, detmn. of, in natural waters, by β -counting, 5H52
Cadmium alloys, analysis of, by a.a.s., 1B166
 analysis of zinc-containing, by voltammetry, 1B40
 detmn. of lead in, by polarography, 4B114
Cadmium azide, detmn. of metallic cadmium in, by potentiometry, 4B68
Cadmium mercury telluride, analysis of, by a.a.s., 1B166
Cadmium oxide, detmn. of, in cadmium telluride, by distillation and polarography, 6B181
Cadmium salts, analysis of, by extraction - spectrometry, 9B48
Cadmium selenide, analysis of thin films of, by chronoamperometry, 9B187
 detmn. of silver in, by a.a.s., 9B49
Cadmium sulphide, detmn. of iron, cobalt, nickel and copper in, by extraction - spectrophotometry, 9B46
 extraction - spectrographic, 10B45
Cadmium telluride, detmn. of free cadmium, free tellurium and cadmium oxide in, by distillation and polarography, 6B181
 detmn. of trace elements in, by n.a.a., 6B182
 sepn. of trace elements from, 12B185
Cadralazine, detmn. of, and its metabolites, by t.l.c. - photodensitometry, 2E37
 with its metabolites, in biological fluids, by isotope dilution, 8D76
Caesium, detmn. of, by a.a.s., 1B18
 by pptn. - thermal decomposition, 2B10
 by spectrophotometry, 5B32
 in chlorostannates, by a.a.s., 2B53
 in fission-product soln., by radiometry after sub-stoichiometric pptn., 5B33
 in rubidium chloride, by laser-induced ionization, 3B26
 in silicate rocks, instrumental and radiochemical, 10B28
 in water, by laser atomic ionization, 1B17
 titrimetric, ion-selective indicator electrodes for, 3J104
 with ion-selective electrode, 1J103
 detmn. of radioactive, in marine materials, by γ -ray spectrometry, 9H41
 extraction of, from carbonate soln., alkylcatechol in, 5B126
 in presence of non-ionic surfactant, 7B23
 ion-exchange behaviour of, with crown ether - tungstophosphoric acid ppt., 11B20
 sepn. of, by ion-exchange and column chromatography, 6B16
Caesium-137, detmn. of, non-destructive system for, design of, 5A40
 extraction of, from biological materials, with cobalt dicarbollide, 5D18
Caesium chloride, detmn. of, by t.l.c., 9B16
 detmn. of iron in, spectrophotometric, 11B128
 detmn. of silicon in, by spectrophotometry, 8B78
Caesium picrate, extraction of, in presence of crown ethers and tributyl phosphate or triethylphosphine oxide, 6B39

- Caffeic acid**, sepn. of, by h.p.l.c., 1G2
sepn. of *cis*- and *trans*-isomers of, by h.p.l.c., 8C34
- Caffeic acid esters**, detmn. of, of plants, by liquid chromatography, 10D131
- Caffeine**, detection of, in horse urine, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
detmn. of, and its *N*-demethyl metabolites, in plasma, by h.p.l.c., 11D47
by h.p.l.c., 2E5
in air, by g.l.c., 2H29
in beverages, by m.s., 7J105
in biological materials and soln., 7D38
in blood and urine, 7D37
by g.l.c., t.l.c. and h.p.l.c., 3D58
in cocaine, by h.p.l.c., 8E12
in coffee, spectrophotometric reference method for, 4F64
in drinks and pharmaceuticals, by g.l.c., 8E16
in pharmaceutical preparations, by h.p.l.c., 4E33
by titrimetry, 4E4
in pharmaceuticals and beverages, colorimetric, 10E13
in plasma, by substrate-labelled fluoro-immunoassay, 12D60
in serum, by h.p.l.c., 6D58
in serum and saliva, by h.p.l.c., 10D58
in urine, by g.c., 7D46
- identn. of, in phentermine tablets, spectrophotometric, 7E27
sepn. of, by t.l.c., 1E7
from aspirin and phenacetin, by micro h.p.l.c., 10J18
- Cakes**, detmn. of propionic acid and calcium and sodium propionate in, by g.c., 4F22
- Calcein**, detmn. of, in serum, by r.i.a., review, 3D171
- Calcium**, analysis of, by PIXE, calculation of uncertainties in, 5J77
concn. of traces of, by complexation with tiron and anion exchange, 5B23
detmn. of, 1,3-bis-(2-pyridylmethyleneamino)urea in spectrophotometric, 9B36
by a.a.s., computerized data-processing in, 6B54
by differential pulse stripping voltammetry, 2B25
by flow injection - a.a.s., interference in, 7B40
by ion chromatography with EDTA as eluent, 12B24
by ion-selective electrode with bipolar-pulse conductometry, interference in, 7B39
by paper chromatography - a.a.s., 10B3
by stable-isotope-dilution activation analysis, 6J164
by titration with EDTA, with ferrocyanide as masking agent, 5B60
complexometric, 10C27
crown ether derivatives in photometric, 5B59
in alkali-metal chlorides, by a.a.s., 3B23
in aluminium alloys, by a.a.s., 2B32
in animal feed and tissues, by a.a.s., ashing method for, 9D23
in aq. and acid soln., h.f. generator with argon plasma for, 4J124
in bastnaesite, by ion exchange, 3B54
in biological materials, by electron micro-probe analysis, 10J80
in biological tissues, by ion microscopy, 5G7
in blood, effects of sample collection and storage conditions on, 12D21
electrode for, 10D28
ion-selective electrodes in, review, 5D17
with Ektachem 400 Analyzer, 6D9
in blood platelets, by a.a.s., 12D25
in brown coal, by X-ray technique, 5B274
by XRF and X-ray backscattering, 11B161
in carbide inclusions in steel, by a.a.s., 3B93
in cement and silicates, by a.a.s., 1J65
in Chinese cabbage, by a.a.s., digestion methods for, 10F51
in erythrocyte ghosts, by spectrophotometry in presence of arsenazo III, 4D34
in erythrocytes, by ICP a.e.s., 5D19
in erythrocytes and plasma of pregnant women, by PIXE, 12D17
in faeces, urine and food, by plasma emission spectrometry, 12D22
in feeds, stopped-flow colorimetric, 8G7
in feldspar and lime, by a.a.s., 3B110
in fertilizers, by a.a.s., 3G7
in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
in forage, precision and quality control of, 5G21
in geological materials, by XRF, 4B192
in glass, by a.a.s., 7B149
in hair, by PIXE, 4D55
by spectrophotometry, 7D26
in instant oatmeal product, by ion chromatography, 5F2
in meats, titrimetric with EDTA, 2F15
in milk, clarification procedure for, 4F40
in milk-protein concentrates, reproducibility of, 5F30
in minerals, bis-(2-ethylhexyl) phosphate in, 6B55
by ion-beam bombardment - annihilation γ -ray detection, 12J141
in natural waters, by ion-selective electrode, selectivity of, 4H59
in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
in paper ash, complexometric and spectrophotometric, 12C62
in phosphoric acid, by XRF, 2B55
- Calcium**, detmn. of, -continued
in plants, by hydrochloric acid extraction, 11G1
in plasma and urine, automated spectrophotometric, 3D16
in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
in potassium dihydrogen phosphate, by emission spectrometry and a.a.s., 10B99
in powders, by scanning electron microscopy and energy-dispersive X-ray spectroscopy, 11J81
in presence of alcohols, by a.a.s., 8B36
in presence of carbon black, by flame spectrometry, 9B34
in quicklime, hydrated lime and calcium carbonate, 9B38
in reference serum, by ICP a.e.s., 11D15
in saliva, 4D33
in sea-water, review, 2H33
in sea-water containing magnesium, by thermometry, 3H40
in serum, automated analyser for, 9D10
by a.a.s., 3D17
by flow injection - ICP a.e.s., 10D20
by PIXE, 12D45
by spectrophotometry, kit for, 1D18
Donnan effect in, 2D21
electrode system for, 6D30
static-type ion-selective electrode in, 4D32
with automated analyser, effect of haemolysis on, 2D20
in serum and plasma, by flow-injection analysis and a.a.s., 8D21
in serum and urine, by ICP a.e.s., 1D17
spectrophotometric kit for, 10D27
in silicate rocks, by flow-injection a.a.s., 2B51
in silicates, by a.a.s., solubilization in, 1B155
in soil, 9G7, 10G10
by spectrophotometry, 3G6
by spectrophotometry with chlorophosphonazo I, 4G13
by XRF, 4J92
in steel and cast iron, by a.a.s., 3B94
in tears, by a.a.s., 2D15
in triuranium octaoxide, by a.a.s., 4B97
in urban aerosols, by XRF, 6H13
in urine, pre-treatment procedure for, 10D14
in water, by a.a.s., 1H26
by ion chromatography, 6B37
surfactant-tolerant ion-selective electrode for, 5J172
in wine, by flame photometry and a.a.s., 12F36
in zinc salts, by a.a.s., 12B48
ion-selective electrode for, 10J137
effect of anionic surfactants on, 2J111
macrocytic polyether-amide for membrane in, 10J136
ion-selective electrode in, bipolar-pulse conductometric monitoring in continuous-flow system for, 3B42
mercury - EDTA complex in titrimetric, 10B41
with ion-selective electrode, 1J104
detmn. of dialysable, in serum, continuous-flow spectrophotometric, 10D29
detmn. of free, in living cells, review, 7D24
detmn. of ionic, in blood, integrated-circuit sensor in, 8D18
detmn. of ionized, in blood, automated, 6D32
automated analysers for, 6D33
in plasma, inaccuracy of nomograms for, 6D31
in serum, Donnan effect in automated, 3D18
with ion-selective electrode, effects of pH and sodium chloride on, 9D22
detmn. of uptake of, by mitochondria, micro-filtration apparatus for, 5J8
extraction of, 2B23
sepn. of, from other bivalent cations, by chromatography on zirconium molybdate, 3B2
from other metals, polystyrene-based chelating resin for, 3B19
- Calcium carbimide**, detmn. of citrated, in biological fluids, review, 10D110
- Calcium carbonate**, detmn. of, in sediments and soils, vacuum - gasometric, 7H35
detmn. of impurities in, poly(dithiocarbamate) resin in, 1A6
detmn. of manganese in, by candoluminescence spectrophotometry, 6B56
particle size analysis of, 11J148
sampling of, 9B37
- Calcium gluceptate**, detmn. of α - and β -epimers of, by g.l.c., 9E58
- Calcium oxide**, detmn. of, in iron-ore concentrates, by XRF, 11B130
in red mud, review, 1B47
in slag, by XRF, 4B158
in slags and dolomite, 10B144
detmn. of trace elements in, spectrographic, 11B32
- Calcium phosphate**, detmn. of phosphorus in, by n.a.a., 4J155
- Calibration**, of instruments, compensation for "drift" in, 8A14
standard-additions method in, accuracy of, 10J87
- Californium**, detmn. of, in urine, isolation method for, 7D28
- Calmodulin**, detection of, after electrophoresis, by staining, 1D161
detmn. of, by assaying cAMP phosphodiesterase, 11D254
by r.i.a. after treatment with chloramine T, 9D211
- Calorimetry, differential scanning**, computerized, 9J144

Calorimetry—continued

- effects of experimental variables on, 4J177
in detmn. of purity, correction of errors in, 1J122
instruments for, reference materials in calibration of, 8J133
- Calpastatin**, detection of, in carp, by chromatography, 2D202
- Camazepam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
- Camphchlor**, analysis of, by capillary g.c. - m.s., 1G15
detmn. of, in cereals, by steam-distillation - g.c., 7G35
detmn. of residues of, in tissues, by g.l.c., 12D109
review, 7H5
- Camphor**, detmn. of, in inhalants, by g.l.c., 2E17
- Canavanine**, detmn. of, in lucerne, fluorimetric, 10G14
- Candicine chloride**, detection of, in cactus, by laser desorption and m.s. - m.s., 3E7
- Candles**, identn. of alkanes in, by g.l.c., 2C76
- Cannabidiol**, detection of, in urine, blood and serum, by g.c. - m.s., 5D52
- Cannabinoids**, detmn. of, by h.p.l.c. and t.l.c. as dabsyl derivatives, 12D66
sepn. of, in *Cannabis sativa*, by g.c. and h.p.l.c., effect of sample treatment on, 9D151
- Cannabinol**, detection of, in urine, blood and serum, by g.c. - m.s., 5D52
detmn. of, by h.p.l.c. and t.l.c. as dabsyl derivatives, 12D66
—, **tetrahydro-**, detection of, in urine, blood and serum, by g.c. - m.s., 5D52
detmn. of, by h.p.l.c. and t.l.c. as dabsyl derivatives, 12D66
in blood, by r.i.a., 12D67
—, **Δ^1 -tetrahydro-**, detmn. of, in tissues and body fluids, review, 9D45
—, **Δ^2 -tetrahydro-**, detection of, in breath, by g.c. - m.s., 10D66
detmn. of, in blood and urine, by h.p.l.c. - r.i.a., 10D65
by r.i.a., 10D64
extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
- Cannabinol-9-carboxylic acid, 11-nor- Δ^2 -tetrahydro-**, detection of, in urine, by t.l.c. - g.l.c. - m.s., 2D55
—, **11-nor- Δ^2 -tetrahydro-**, detection of, in urine, blood and serum, by g.c. - m.s., 5D52
by t.l.c., 11D49
by t.l.c. - g.l.c. - m.s., 2D55
detmn. of, in urine, by g.l.c. - e.c.d., 10D63
by h.p.l.c., 8D36
- Cannabinol-11-carboxylic acid, Δ^2 -tetrahydro-**, detmn. of, in urine, by g.c. - m.s., 3D36
by h.p.l.c. and g.l.c., 11D48
- Cannabis**, analysis of, by PIXE, 7D13
detection of, on hands, by g.c. - m.s. analysis of swabs, 3D35
detection of cannabinoids in, by t.l.c., 5E19
- Cannabis sativa**, sepn. of cannabinoids in, by g.c. and h.p.l.c., effect of sample treatment on, 9D151
- Canrenone**, detmn. of, in plasma and urine, by h.p.l.c., 6D126
- Caprolactam**, detmn. of, in 6-acetamidohexanoic acid, by t.l.c., 6E58
detmn. of impurities in, by g.c., 5C100
by titrimetry or spectrophotometry, 9C77
—, **acetyl-**, detmn. of, in 6-acetamidohexanoic acid, by t.l.c., 6E58
—, **thio-**, detmn. of, 4-(2-pyridylazo)resorcinol and copper^{II} in spectrophotometric, 10C49
- Capsaicin**, detmn. of, in *Capsicum* fruit, 9E15
in oleoresins, by h.p.l.c., 4F60
—, **dihydro-**, detmn. of, in oleoresins, by h.p.l.c., 4F60
- Capsaicinoids**, detmn. of, in red pepper, by h.p.l.c., 6F63
- Capsicum**, detmn. of capsaicin in fruit of, 9E15
- Captafol**, detmn. of, in mixtures with captan and folpet, by g.c., 7G30
- Captan**, detmn. of, in mixtures with folpet and captafol, by g.c., 7G30
extraction of, from textiles, 8C80
- Captopril**, detmn. of, and its disulphide metabolites, in blood or plasma, by derivatization - g.c., 10D103
in formulations, spectrophotometric, 6E49
in plasma, by r.i.a., 3D67
in serum, by r.i.a., 10D101
with its metabolites, in plasma and urine, by g.c. - m.s., 8D77
- Caramel**, identn. of sugar degradation products in, by g.l.c., 10F24
- Caramiphen**, detmn. of, in tablets, by titration, 9E43
- Caraway oil**, detmn. of carvone in, by second-derivative u.v. spectrophotometry, 3C59
- Carbamate, 2-chloro-3-isopropylphenyl methyl-**, detmn. of, in urine, by g.l.c., 3D86
- Carbamates, methyl-**, detmn. of, in urine, by g.l.c., 3D86
- Carbamazepine**, detmn. of, in blood, by automated fluorimetry or photometry, 4J10
in plasma, 6D77
by fluorescence immunoassay, 6D78
by h.p.l.c., 12D74
by substrate-labelled fluorescence immunoassay, 4D93
in saliva, for therapeutic monitoring, 10D83
in serum, Abbott TDx system for stat., 11D38
by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
by fluorescence immunoassay and enzyme-multiplied immunoassay, 4D94
by fluoro-immunoassay, with centrifugal analyser, 7D42
by h.p.l.c., 8D45
by liquid chromatography, 7D58
- Carbamazepine**, detmn. of, in serum, —continued
by reversed-phase h.p.l.c., 8D47
by semi-automated enzyme immunoassay, 4D90
by spectrophotometry, 4D92
effect of storage on, 10D81
EMIT filtration and assay systems for, 10D84
in serum and anticoagulant-treated plasma, by enzyme-multiplied immunoassay, 4D88
extraction of unbound, from plasma, by ultra-filtration, 11D65
- Carbamic acid, diethyldithio-, sodium salt**, detmn. of, by h.p.l.c., 8C24
—, **N-(OO-di-isopropylthiophosphoryl)dithio-, ethyl ester**, as extractant for metals, 7B14
—, **4-methyl-m-phenylenedi-, diethyl ester**, detmn. of, by h.p.l.c., 6C27
- Carbamides**, detmn. of, of pharmaceutical interest, ammonia-sensing electrode in potentiometric, 8E50
- Carbamothioic acid O-esters, N-alkyl-**, identn. of, by g.c. - m.s., 5C37
- Carbarsone**, detmn. of, in animal feed, by spectrophotometry, 3G12
- Carbaryl**, detmn. of, by spectrofluorimetry, 3G21
by t.l.c., 2G17
enzyme electrode for, 5H82
in insecticide formulations or vegetables, spectrophotometric, 10F50
in pineapples, by h.p.l.c. and chemical-ionization g.c. - m.s., 11G38
in soft drinks, by h.p.l.c., 7F82
in wheat, by h.p.l.c., 1G18
- Carbazole**, detmn. of, in anthracene, by synchronous fluorescence, 8C43
in dibenzofuran, by synchronous fluorescence spectrometry, 5C56
in its 9-substituted derivatives, by i.r. spectrophotometry, 7C50
phosphorescence of, cyclodextrin-induced, 12C39
sepn. of, by h.p.l.c., 5C1
- Carbazole derivatives, methyl-**, detmn. of, by capillary-column g.c., 9C41
- Carbendazim**, detmn. of, by h.p.l.c., after extraction from dermal dosimeters, 1G14
- Carbides**, detmn. of, in steel, by spectrography, hollow-cathode discharge tube for, 5B235
potentiometric, 11B141
in tungsten - molybdenum steel, by X-ray spectrometry, 4B157
- Carbidopa**, detmn. of, by anodic voltammetry, 12E45
- Carbinoxamine**, detmn. of, in serum, by g.l.c., 6D116
- Carbisocaine**, sepn. of, from biological fluids, by adsorption on C₁₈ silica gel, 10D97
- Carbofuran**, detmn. of, in peppermint, 1G20
in plants, soil, water and aphid feeds, by t.l.c., 12G16
in urine, by g.l.c., 3D86
in waters and soil, by g.c., 9H79
detmn. of metabolites of, in peppermint, by multiple-ion-detection m.s., 1G19
in plants, by g.c. - m.s., 6G33
—, **3-hydroxy-**, detmn. of, in peppermint, 1G20
in plants, soil, water and aphid feeds, by t.l.c., 12G16
- Carbohydrates**, analysis of, 4A1B, 4F81B
by high-field n.m.r., review, 11A8
by h.p.l.c. on strong cation-exchange resin, 12C1
concentration of, on polyacrylate gel, 3D8
detection of, in illicit drugs, by g.l.c., 6E6
detection of 2-deoxy-, on chromatograms and electropherograms, 3A3
detmn. of, by anion-exchange chromatography, 2C17
by g.c. as TMS derivatives, 3D94
by h.p.l.c., 2C14, 5C20
periodate in, 1D86
refractometric detector for, 6J39
by ion chromatography, after oxidation to formic acid, 4C12
in baby food, by extraction - colorimetry, 12F12
in beet and cane molasses, by h.p.l.c., 7F30
in celery, by h.p.l.c., 6F61
in citrus juice, by conductometry, four-electrode cell for, 4F53
in diamorphine, by h.p.l.c., 2E9
in eye lens, plasma and erythrocytes, by h.p.l.c., 12D114
in food, by h.p.l.c., 9F5
interference by sodium chloride in, 8F16
2-t-butylanthraquinone in, 7E9
by h.p.l.c. and g.l.c., 4F6, 12F4
by ion chromatography with amperometric detection, 3J36
in fruit juice, 1F19
by h.p.l.c., review, 9F40
in soft fruit purees, by h.p.l.c., 11F27
in urine, by h.p.l.c. - polarimetry, 12J44
in yogurt, by g.l.c. of TMS derivatives, 4F47
detmn. of free, by h.p.l.c. - m.s., 7J37
detmn. of methylation products of, by g.c. - m.s., 3D93
detmn. of mono- to tetra-saccharides, in food, by h.p.l.c., 9F6
detmn. of neutral, in plankton, sediments and wood, by g.c., 12D115
detmn. of products of reaction of anion-exchange resins with, by g.c. - m.s. and h.p.l.c., 1C6
detmn. of reducing, arginine in, by h.p.l.c., 1C7
by h.p.l.c., 2C16
by h.p.l.c. with flow-injection analysis detection, 7C18
by h.p.l.c. with post-column reaction, 7C19
in biological samples and foods, by copper reduction - a.a.s., 9D108
in wine, by complexometric titration, metallochromic indicator for, 11A14

Carbohydrates—continued

- detmn. of total, in breakfast cereals, by h.p.l.c., 6F29
 FT i.r. spectrometry of, 10C18
 identn. of, by fast-atom-bombardment m.s., polyoxyethylene glycol as solvent for, 12C15
 in cereals, by fluorescence microscopy, 9A3B
 in sorbose, by g.c. - m.s., 3C10
 identn. of D- and L-, lectins in chromatography, 11D118
 sepn. of, by high-performance t.l.c., 12C14
 by h.p.l.c. of oximes, 6C9
 by t.l.c., stationary phase for, 1J42
 by t.l.c. on 3-aminopropyl-bonded silica, 10C15
 sepn. of oligomeric, by h.p.l.c., 8C77
 β -Carboline, 1,2,3,4-tetrahydro-, sepn. of, from other tetrahydro- β -carboline, by h.p.l.c., 2D169
—, 1,2,3,4-tetrahydro-6-hydroxy-, sepn. of, from other tetrahydro- β -carboline, by h.p.l.c., 2D169
—, 1,2,3,4-tetrahydro-6-methoxy-, sepn. of, from other tetrahydro- β -carboline, by h.p.l.c., 2D169
—, 1,2,3,4-tetrahydro-2-methyl-, sepn. of, from other tetrahydro- β -carboline, by h.p.l.c., 2D169
 β -Carbolines, tetrahydro-, detmn. of, by h.p.l.c., 7D164
Carbon, analysis of, by PIXE, calculation of uncertainties in, 5J77
 analysis of thin films of, X-ray-induced Auger micro-probe, 3B62
 characterization of materials based on, 5B129
 depth profiling of, by helium-3-induced nuclear reaction, 12J143
 detection of, in gas phase, review, 9H1
 detection of traces of, in gallium arsenide semiconductors, by m.s., helium cryopumping in, 8B138
 detmn. of, by activation with heavy ions, review, 12B10
 by electron-probe micro-analysis, 7B73
 by α -particle-induced γ -ray emission, 5B10
 by scattering of combination X-ray lines, 8B7
 in aerosols, by reflectance and photoacoustic photometry, 5H18
 in biological materials, by vaporization - plasma emission spectrometry, 6D36
 in biological samples, comparison of combustion methods for, 4D42
 in cast iron, by Compton scattering of X-rays, 8B116
 in coal, char and coke, micro-analysers in, 5B278
 in extraterrestrial rocks, contamination in, 9B88
 in glass, by deuteron-activation analysis, 9B178
 in iron and steel, by i.r. spectrophotometry, 11B133
 combustion - gravimetric, 11B132
 in metal complexes, after combustion and selective trapping, 4C4
 in metals, by laser m.s., 12B21
 review, 4B26
 in metals and sucrose, by coulometric - photometric titration, 5B130
 in minerals, by ion-beam bombardment - annihilation γ -ray detection, 12J141
 in oil sands, low-temp. ashing in, 5C76
 in organic compounds, by chromatography, 2C3
 by differential thermal conductivity, apparatus for, 12C4
 by pyrolysis - g.c., 2C4
 by sulphurization - g.c., 2C5
 ICP - FT near-i.r. spectrometer system for, 12C5
 removal of interference by phosphorus pentoxide in, 5C6
 statistical evaluation of, 11C3
 in organic fluoro-compounds, elimination of interference in, 9C9
 in organomercury compounds, 11C2
 in plant material, solvent-extraction fractionation in, 4D48
 in plants or soil, wet-combustion method for, 8D27
 in primary ingot aluminium, for certification, 11B43
 in rocks, 7B70
 in solid fuel, by multiple neutron γ -ray spectrometry, 1B158
 in standard tetramethylammonium tetraphenylborate, 9A15
 in steel, absolute calibration of coulometric, 11B139
 by electron-probe micro-analysis, ZAF correction in, 7B128
 in thin foils and films, by elastic recoil detection, 12B14
 in uranium carbide, by g.c., 2B47
 in waste solids, 4H86
 simultaneously with other elements in organic compounds, by pyrolysis - g.c., 12C3
 detmn. of amorphous and crystalline, in coke, by X-ray diffraction, 11B163
 detmn. of dissolved organic, in conc. brine soln., absolute method for, 5H72
 detmn. of elementary, in rain-water, by oxidation and i.r. spectrophotometry, 7H40
 detmn. of inorganic and organic, in marine sediments and particulates from sea-water, 6H60
 detmn. of inorganic and total, in solid wastes, 12H104
 detmn. of long-lived radionuclides in, 5H2
 detmn. of organic, by combustion - a.e.s., 7C6
 in river sediments, automated analyser in, 2H55
 in soil, extractants for, 11G12
 in water, automated, 11H54
 detmn. of organic and elementary, in residues from diesel exhaust gases, 11H14
 detmn. of particulate organic, in water, colorimetric, 12H82
 detmn. of radioactive, in archaeological materials, by scintillation counting, 5C5

Carbon—continued

- detmn. of rare stable isotopes of, charged-particle induced prompt γ -rays in, 11B9
 detmn. of total, in titanium^{IV} chloride, by g.c., 12B95
 detmn. of total inorganic, in small water samples, by i.r. spectrometry, microcomputer in, 12H62
 detmn. of total organic, in ground water, by trapping, combustion and i.r. spectrophotometry, 7H57
 in sediment, by wet-combustion - i.r. spectrometry, 3H56
 in waste water, automated analysers for, 6H97
 in water, 3H55
 oxidation procedures for, 8H74
 measurement of thickness of thin foils of, by heavy-ion absorption, 10J17
Carbon-14, detection of, by autoradiography, X-ray films for, 2J102
 on t.l.c. sheets, by liquid scintillation, 1D10
 detmn. of, in plants or soil, wet-combustion method for, 8D27
 in rape leaves, 6D40
Carbonate, detmn. of, in aq. sodium hydroxide, Total Organic Carbon analyser in, 4B35
 in calcified tissue, by acidification - g.c., 10D37
 in carbonated apatites, i.r. spectrophotometric, 11D20
 in minerals, soil and rocks, by thermal analysis, 1B154
 in oil sands, low-temp. ashing in, 5C76
 in sea-water, by titrimetry, 2H41
 in soln., calculation of equivalence-point in titrimetric, 12B80
Carbonate dehydratase, assay of, enzyme-linked immunosorbent, 1D228
 in plasma, urine and tissue, by r.i.a., 8D256
Carbonates, detmn. of, in detergents, by g.c., 10C61
Carbon black, analysis of surface of, by head-space g.c., 11J49
 detmn. of PAH in, 11D260B
 chromatographic, 12C78
 identn. of, in nail lacquers, by combustion, 12C57
Carbon dioxide, analysis of aerosols of liquefied, by h.p.l.c., 10C5
 detection of, electrodes for, 7J128
 detmn. of, by flow-injection analysis, gas-permeation sepn. in, 7J10
 from sewage, electrometric, 12H97
 in air, by conductometry, sensor for, 1H9
 by g.c., 4H31, 12H19
 lidar instrument for, 10H21
 in blood, effect of heparin in, 2D30, 2D31
 heparin as source of error in, 4D44
 instrumentation for, 1D24
 temp. correction in, review, 6D27
 temp.-insensitivity of non-aqueous controls in, 4D53, 4D54
 with Ektachem 400 Analyzer, 6D9
 in carbonate rocks, by coulometry, 1B65
 in fire gases, by Raman spectroscopy, 5C96
 in gases, by g.c., 5J6
 by g.s.c., 3D11
 in industrial water, 9H36
 in natural and industrial gases, by g.c., 8C50
 in plasma, interference in potentiometric, 12D36
 in quicklime, hydrated lime and calcium carbonate, 9B38
 in reagents and buffer soln., enzymic - spectrophotometric, 3A5
 in serum, automated analyser for, 9D10
 in water, by g.c., 10H42
 by i.r. spectrometry, 3H43
 potentiometric, 10J140
 reconditioning of ion-selective electrodes for, 9J125
 with carbon dioxide-sensing probe, 1B64
 detmn. of adsorbed or entrapped, in dehydrated food, by head-space analysis, 6F1
 detmn. of chlorine, hydrogen and nitrogen in, by spectrography, 5B133
 detmn. of impurities in, released during brewing, 1F20
 detmn. of methanol and ethanol in, by g.c., calibration in, 12B81
 detmn. of trace, in gas streams, by reduction - g.c. and i.r. spectrophotometry, 10B78
 in high-purity gases, by g.s.c., detector for, 7J69
 detmn. of transcutaneous, in monitoring of new-born babies, 2D29
Carbon-14 dioxide, detmn. of, in air in soil, by liquid scintillation counting, sampling tubes for, 1G5
 released by enzymic reaction, trap for, 4D43
Carbon disulphide, detmn. of, by spectrophotometry, 4G37
 in sewage, phloroglucinol and nickel in spectrophotometric, 10H88
Carbon fibres, detmn. of copper and bismuth in, by anodic-stripping voltammetry, 8B26
 sampling of, in aerosols, inlet for, 11J3
Carbon monoxide, detection of, in air at hazardous-waste sites, sampler for, 5H6
 detmn. of, in air, by dynamic coulometry, 1H10
 by g.c., 4H31, 10H20
 by spectrophotometry, 4H20, 7H14
 calibration of apparatus for, 8H16
 i.r. filters in, 5H17
 laser spectrometer for, 12H18
 personal sampler for, 3H8
 proton-conductor sensor for, 6J6
 semiconductor sensor for, 7J127
 in breath, by g.l.c., 4D28

- Carbon monoxide**, detmn. of, in breath,—*continued*
by i.r. spectrometry, 10D227
sampling device for, 8D94
in fire gases, by Raman spectroscopy, 5C96
in flames, by laser-excited fluorescence, 11B69
in flue gases, 2H17
in gases, by g.c., 5J6
detmn. of trace, in air, by g.c., review, 6H6
in high-purity gases, by g.s.c., detector for, 7J69
- Carbon tetrachloride**, analysis of, by g.c. or i.r. spectrophotometry, 9C14
detmn. of, by capillary g.c., 9J64
in drinking water, xylene as extractant for, 7H61
in water, by head-space g.c., 5J56
identn. of perchloro-aromatic compounds in waste products from production of, 10C84
sampling of, in air, by sorption on Tenax-GC, 2H20
- Carbonyl compounds**, detmn. of, in acetic acid, by head-space g.c., 8C17
in glycerol, polarographic, 11C9
in oxidized fats, by g.l.c. of trichlorophenylhydrazones, 5F53
in tobacco smoke, by hydrazone derivatization - h.p.l.c., 8D112
(7-nitrobenzofurazan-4-yl)hydrazine in fluorimetric, 10C10
g.c. of, fluorine-containing reagents in, 9C12
- Carbonyl groups**, detmn. of, in oxidized polyethylene, by i.r. spectrometry, 6C54
- Carboxamides**, sepn. of, by g.c., 10C25
- Carboxy-groups**, detmn. of, by spectrophotometry, as anilides, 8C6
in oxidized starch, by iodimetric titration, 4F20
in sulphite pulps, titrimetric, 11C66
detmn. of terminal, in poly(ethylene terephthalate), by polarography, 5C109
- Carboxylesterase**, assay of, by spectrophotometry, 1D217
- Carboxylic acids**, analysis and titrimetry of, for certification, 7C4
analysis of, by h.p.l.c. on strong cation-exchange resin, 12C1
chromatography of, derivatization for fluorescence detection in, 6D174
detection of, basic dyes for, 6C3
decolorized dyes for, 6C2
in urine, by cation-exchange chromatography, 12D119
detmn. of, as *p*-nitrobenzyl esters, in fruit juice and wine, by h.p.l.c., 11F30
as phenacyl ester, by h.p.l.c., 9C17
by capillary g.l.c., 6D160
by dual-capillary-column g.c., 11C5
by g.c., 2C21
by g.c. and h.p.l.c., 4F16, 9F19
by indirect iodimetric titration, 12C2
by non-aqueous titration, indicator for, 11A13
by potentiometric titrimetry, 3C15
chloranil in spectrophotometric, 4C21
in air-borne particulates, by g.c., 3H21
in beet extract, raw juice and molasses, by h.p.l.c., 4F14
in biological fluids, by ion-exclusion chromatography, 6D158
in biological tissues, by ion-pair chromatography, 5D163
in cheese, by h.p.l.c., 8F40
in complex mixtures, by g.c., 6C40
in egg products, by g.l.c., as indicator of spoilage, 11F19
in fats and oils, iodimetric and polarographic, 12F42
in Fischer - Tropsch products, by g.l.c. and liquid chromatography, 8C7
in fruit and vegetable juices, by h.p.l.c., 11F31
in fruit juice, by h.p.l.c., review, 9F40
in hydrolysates of monosaccharides, isotachophoretic, 10C73
in mixtures of organic compounds, by g.l.c., 7C9
in orange, grapefruit and cherry juices, by h.p.l.c., 5F36
in pharmaceutical preparations, by h.p.l.c., 11E54
in potable and natural water, by ion chromatography, 3H29
in serum and urine, review, 7D122
in silage, by h.p.l.c., 2G12
in sugar, by g.l.c., butyl esterification in, 4F18
in urine, by g.c. of TMS derivatives, 11D129
in vegetables, by ion chromatography, 6F65
in waste water, by g.l.c., 3H77
in wine, by paper chromatography, 4F72
reagents for fluorimetric, 5A11
detmn. of bound, in wood, by displacement and titration, 5C95
detmn. of Krebs-cycle, in biological tissue, by g.l.c. - m.s., 4D156
detmn. of volatile, by g.c., 3C14
in natural water, by g.c., 12H87
extraction of, from grapes, 4F55
identn. of, in pyroigneous liquors, by h.p.l.c., 12C61
profiling of, in urine and plasma, by g.l.c., 5D127
sepn. of, by ion chromatography, 6J48
by ion-exclusion chromatography, 6C12
by paper chromatography, 11C11
sepn. of enantiomers of, by g.l.c., reagent for, 2A4
by h.p.l.c., cinchona alkaloids as counter-ions in, 7C24
titration of, in 2-methoxyethanol soln., conductometric, 7C35
t.l.c. and h.p.l.c. of alkoxy-derivatives of arylaliphatic, 7C21
—, **aliphatic**, detmn. of, by methylation - g.l.c., 8C14
in air, by ion chromatography, 6H32
detmn. of products of chlorination of 3-thiolene 1,1-dioxide in, by g.c., 10C13
- Carboxylic acids—continued**
identn. of phenoxy, by m.s., differentiation from phenols, 7C23
titration of anions of, electrodes for, 8C15
—, —, **benzyl esters**, g.l.c. of, 6C25
—, —, **C₂ to C₅**, detmn. of, in air, by g.c., 8H26
—, —, **hydroxy-**, detmn. of, by methylation - g.l.c., 8C14
—, —, **3-hydroxy-**, sepn. of enantiomers of, by g.l.c., 6D212
—, —, **phenyl esters**, g.l.c. of, 6C25
—, —, **aminopoly-**, detmn. of, by titrimetry, 2C23
—, **aromatic**, sepn. of, by high-performance electrophoresis, 5J45
by h.p.l.c., computerized choice of mobile phase for, 7C36
liquid phases for, 7J30
by liquid chromatography, cyclodextrin phases for, 5C3
by reversed-phase h.p.l.c., 6C24
—, **di-**, sepn. of, by t.l.c., detection method for, 8C13
—, **2-hydroxy-**, sepn. of enantiomers of, by g.c., preparation of derivatives for, 5C26
—, **2-oxo-**, detmn. of, by h.p.l.c., as quinoxalinol derivatives, 8D113
sepn. of, by ion-exclusion chromatography, 6C12
—, **phenolic**, detmn. of, in beer and brewing materials, by extraction - h.p.l.c., 12F34
in rapeseed flour, by g.l.c., 9G10
—, **polyunsaturated**, sepn. of, by g.c., semi-automatic computer-based, 1D100
—, **D-Carboxypeptidase**, assay of, from *Streptomyces*, fluorimetric, 11D245
Carboxypeptidase A, assay of, cation-selective electrodes in, 6D309
in serum, by fluorimetry, 6D314
Cardiac glycosides, detmn. of, by h.p.l.c., 2-t-butylanthraquinone in, 7E9
by h.p.l.c. - post-column reaction - fluorimetry, 7C10
in plants, enzymic, 2E15
sepn. of 3,5-dinitrobenzoyl derivatives of, by micro h.p.l.c., 5E17
Cardiotensin, sepn. of benzetide, triamterene and bupranolol in, by h.p.l.c., 12E36
3-Carene, sepn. of, from α -pinene, γ -terpinene and fenchone, by g.c. - n.m.r., 8J65
Carmustine, detmn. of, in plasma, by h.p.l.c., 9D97
Carnitine, detmn. of, in plasma, washing procedures for, 9D184
m.s. of, after generation of ions by secondary-ion m.s., 9J115
—, **acetyl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
—, **acyl-**, detmn. of, in plasma, washing procedures for, 9D184
—, **butyryl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
—, **isobutyryl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
—, **3-methylbutyryl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
—, **propionyl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
—, **valeryl-**, detmn. of, in tissues or colostrum, by radioisotopic exchange, 6D225
Carnitine palmitoyltransferase, assay of, albumin binding in, 4D313
in tissues, spectrophotometric, 7D245
Carnitines, **acyl-**, detmn. of short-chain, by radioisotopic exchange, 6D225
Carnosine, detmn. of, in muscle tissue, by spectrophotometry, 4D234
 α -Carotene, detmn. of, in serum, by h.p.l.c., 12D218
 β -Carotene, detmn. of, in serum, by h.p.l.c., 1D183, 12D218
in serum or plasma, extraction - spectrophotometric, 10D217
Carotenes, detmn. of, by absorptiometry and colorimetry, 2G15
in food, fruit and vegetables, 3F5
in forage, precision and quality control of, 5G21
in lettuce, chicory and endive, 12F26
extraction of, from grass-silage and hay-silage, 2G14
Carotenoids, chromatography of, review, 11D221
detmn. of, in algae, by h.p.l.c., 2H64
in leaves, by spectrophotometry, 4D272
in serum or plasma, extraction - spectrophotometric, 10D217
identn. of, in tobacco leaves, by h.p.l.c., 7D206
Carp, detection of calpastatin and trypsin inhibitor in, by chromatography, 2D202
Carprofen, detmn. of, in plasma, by h.p.l.c., 2D87
Carrageenan, detmn. of 3,6-anhydrogalactose in, spectrophotometric, 3D96
Carrots, detmn. of herbicides in, by t.l.c., 7G26
detmn. of nitrate in, by ion chromatography, 5F2
Cartap, detmn. of, by spectrophotometry, 2G30
in water, blood and milk, by colorimetry or fluorimetry, 3H66
Carubicin, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
Carvacrol, detmn. of, in dental disinfectants, by t.l.c., 8E76
Carvone, detmn. of, in caraway and dill oils, by second-derivative u.v. spectrophotometry, 3C59
Cascara, detmn. of glycosides in preparations containing, 6E17
Cascarosides, detmn. of, in cascara preparations, 6E17
Casein, detmn. of, in milk powder, by rocket immunoelectrophoresis, 7F60
detmn. of lactose in, automated spectrophotometric, 10F37
 β -Casein, sepn. of, in milk, gel-permeation or anion-exchange chromatographic, 2F26

- κ -Casein**, detmn. of, in milk, by enzyme immunoassay, 2F24
- Casimiroa edulis**, detmn. of furocoumarins in seeds of, by h.p.l.c., 11D154
- detmn. of imidazole derivatives and rutin in, by h.p.l.c., 8E5
- Cassava**, detmn. of cyanide in, enzymic, 11F28
- detmn. of glycosides in, by densitometry, 1F6
- Cassa oil**, detmn. of cinnamaldehyde in, by second-derivative u.v. spectrophotometry, 3C59
- Casting powder**, analysis of, by XRF, 5B231
- Catalase**, assay of, electrochemical, 10H94
- detmn. of, by direct potentiometry, 7D186
- sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- Catalysts**, analysis of, by FT i.r. spectrometry, 2B91
- by ion-beam techniques, 9B185
- analysis of coked, by thermogravimetry - evolved-gas analysis, 8J132
- analysis of petroleum-refining, by ICP a.e.s., 9B184
- detmn. of aluminium in petroleum-cracking, by complexometric titration, 5B285
- detmn. of bismuth and palladium in, polarographic, 9B183
- detmn. of cobalt and chromium in, by a.a.s., 3B112
- detmn. of copper and zinc in low-temp. carbon monoxide-conversion, complexometric, 7B158
- detmn. of esters chemisorbed on Fischer - Tropsh, 6B180
- detmn. of palladium in, by fluorimetry, 7B136
- by spectrophotometry, 2B90, 6E24
- detmn. of platinum in, by spectrophotometry, 5B262
- detmn. of rhodium and rhodium in, by spectrophotometry, 4B201
- detmn. of ruthenium in, by a.a.s., 7B157
- spectrophotometric, 9B182
- detmn. of vanadium in, by spectrophotometry with chlorsulphophenol S, 5B181
- graphite-supported platinum - palladium, characterization of, 5B284
- silica gel as, detmn. of hydroxysilyl groups on, 5J25
- surface analysis of, by X-ray photoelectron spectroscopy, review, 12B181
- surface analysis of molybdenum-doped Raney nickel, by X-ray photoelectron and Auger electron spectroscopy, 12B182
- Catechol**, detmn. of, by h.p.l.c., 3J12
- electrochemical detector for, 12J43
- hydrogen peroxide and peroxidase in spectrophotometric, 10C33
- in whole blood, by g.l.c., 1D74
- spectrophotometric, 12C27
- sepn. of, from other dihydric phenols, by h.p.l.c. with amperometric detection, 5J37
- **3-methyl-**, sepn. of, from other dihydric phenols, by h.p.l.c. with amperometric detection, 5J37
- **4-methyl-**, detmn. of, by h.p.l.c., electrochemical detector for, 12J43
- sepn. of, from other dihydric phenols, by h.p.l.c. with amperometric detection, 5J37
- Catecholamine**, detmn. of acidic metabolites of, in biological fluids, by g.c., review, 10D154
- detmn. of metabolites of, in urine, by h.p.l.c., 6D204
- Catecholamine derivatives**, analysis of degradation products of, by h.p.l.c., 5D164
- detmn. of, in animal tissues, by h.p.l.c. with coulometric detection, 7D157
- in biological materials, by h.p.l.c., 10D157
- by h.p.l.c. as dansyl derivatives, 4D208
- review, 8D152
- in biological tissues, by h.p.l.c., 6D206
- in blood plasma and urine, by g.c. - m.s., 4D207
- in brain, by h.p.l.c., 2D162
- by h.p.l.c. with electrochemical detection, 5D165
- in canine plasma, by h.p.l.c., loss of dihydroxybenzylamine internal standard in, 5D170
- in human urine, by h.p.l.c. with post-column derivatization, 12D152
- in plasma, by h.p.l.c., 1D127, 2D166, 12D154
- by h.p.l.c. with electrochemical detection, 9D159
- deconjugation for, 10D155
- radio-enzymic, 2D165, 8D149, 12D151
- review, 11D161
- in rat brain, by h.p.l.c., with electrochemical detection, 10D158
- in serum, by h.p.l.c. with dual electrochemical detection, 2D163
- in urine, by ion-exchange chromatography with electrochemical detection, 7D156
- interference by triamterene in, 1D125
- detmn. of glucuronide and sulphate conjugates of, in plasma, radio-enzymic, 12D155
- detmn. of metabolites of, in urine, by h.p.l.c., 5D169
- detmn. of sulphate in injections of, by paper chromatography, 9E26
- sepn. of, by h.p.l.c., electrochemical detector for, 5J40
- by h.p.l.c. on aliphatic sulphonic acid cation exchangers, 11J36
- by ion-pair liquid chromatography, 11D160
- Catecholamine sulphates**, detmn. of, in urine, by h.p.l.c. with fluorescence detection, 4D209
- Catechol derivatives**, detmn. of, by h.p.l.c., 3J16
- sepn. of, by h.p.l.c., effect of micellar mobile phase on, 5C46
- Catechol methyltransferase**, assay of, in tissues, by h.p.l.c., 11D239
- Catechol siderophores**, detmn. of, in micro-organisms, colorimetric, 3D131
- Catharanthine**, detmn. of, by differential pulse voltammetry, 11E6
- Cathepsin B**, assay of, substrates for, 5D254
- Cathepsin D**, assay of, substrates for, 3D265
- Cathepsin L**, assay of, substrates for, 5D254
- Cations**, detmn. of, by h.p.l.c., 4B25
- detmn. of organic, as impurities in peptides, by capillary isotachophoresis, 11D180
- sepn. of organic and metal, by zone electrophoresis, 4J46
- CDP reductase**, assay of, by chromatography on polyethylenimine-cellulose, 8D231
- Cefapirin**, detmn. of, in beef, kidney and liver, *Bacillus stearothermophilus* in microbiological, 8F26
- Cefmenoxime**, detmn. of, in serum and urine, by h.p.l.c., 1D45
- in serum or urine, by h.p.l.c., 6D64
- Cefmetazole**, detmn. of, in plasma, by h.p.l.c., 9D47
- Cefoperazone**, detmn. of, in serum and urine, by h.p.l.c., 2D56, 5D53
- Cefotaxime**, detmn. of, in serum, by h.p.l.c., 9D46
- in serum and urine, by enzyme inhibition, 7D50
- Cefotetan**, detmn. of, in plasma and urine, by h.p.l.c., 9D48
- Cefotiam**, detmn. of, in serum and bone-marrow blood, by h.p.l.c., 3D40
- Cefoxitin**, detmn. of, in plasma, by h.p.l.c., 9D47
- in serum and urine, by h.p.l.c., 5D53
- Cefoxitin sodium**, detmn. of, ninhydrin in spectrophotometric, 12E25
- Cefsulodin**, detmn. of, in biological fluids, by h.p.l.c., 10D69
- in serum and bone-marrow blood, by h.p.l.c., 3D40
- Ceftazidime**, detmn. of, in serum, urine, cerebrospinal fluid and dialysis fluid, by h.p.l.c., 11D52
- in serum and urine, by h.p.l.c., 11D53
- Ceftizoxime**, detmn. of, in serum and urine, by h.p.l.c., 11D51
- Cefuroxime**, detmn. of, by h.p.l.c. and microbiological methods, 8E31
- in serum and urine, by h.p.l.c., 5D53
- Celery**, detmn. of aroma compounds in, by g.c. - m.s., 6F62
- detmn. of hydroxycinnamic acid esters, sugars, mannitol and phthalides in, by h.p.l.c., 6F61
- Cellulose**, sepn. of, by h.p.l.c., suppression of phosphate interference in, 7D112
- Cells**, detmn. of DNA in, by flow cytofluorimetry, 11D215
- Cellulase**, assay of, by gel electrophoresis, Congo red-stained agar replicas in, 1D216
- Cellulose**, analysis of hydrolysates of, by reversed-phase h.p.l.c., 8C77
- detmn. of, in forage, precision and quality control of, 5G21
- in municipal solid wastes contaminated with synthetic materials, extractant for, 11H80
- in sunflower seed, acorn, peanut, pumpkin seed, hazel-nut and chestnut, 4F50
- in tobacco, 1D79
- detmn. of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in soln. from processing of, by spectrophotometry or polarography, 9C72
- detmn. of nitrite, nitrate and dimethylformamide in soln. for production of fibres of, 10C72
- detmn. of sodium and magnesium in, by flame a.a.s., 5C94
- measurement of crystallinity of, in paper, by X-ray diffraction, 5C97
- Cellulose nitrate**, analysis of powders and propellants based on, 10C87
- detmn. of nitrogen in, 8C99, 12C82
- Cement**, analysis of, by a.a.s., 1J65
- by particle-induced prompt photon spectrometry, 5J70
- detmn. of aluminium in, by spectrophotometry, 6B66
- detmn. of cadmium in, by ICP a.e.s., 7B155
- detmn. of iron in, mercaptoacetic acid in spectrophotometric, 7B116
- spectrophotometric, 9B143
- detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
- Central nervous system**, *in vivo* analysis of, by h.p.l.c., 4D21
- Centrifugation**, preparation and storage of sucrose gradients for, 7J7
- Cephacetrile**, detmn. of acetic acid in injections of, by ion chromatography, 6E27
- Cephaeline**, detmn. of, in biological fluids, by h.p.l.c., 11D43
- Cephalexin**, detmn. of, in blood plasma, by h.p.l.c., 4D80
- Cephaloridine**, detmn. of, by h.p.l.c. and microbiological methods, 8E31
- in pharmaceutical preparations, by spectrophotometry, 4E24
- ninhydrin in spectrophotometric, 12E25
- Cephalosporin C**, purification of, by ligand-exchange chromatography, 6E28
- Cephalosporins**, detmn. of, by automated flow-injection analysis with enzyme thermistor detector, 10E19
- in biological fluids, by h.p.l.c., 2D57
- in drug formulations and penicillins, spectrophotometric, 6E26
- in pharmaceutical preparations, by spectrophotometry, ammonium vanadate in, 4E26
- in serum and urine, by h.p.l.c., 5D53
- Cephalothin**, detmn. of, in serum and urine, by h.p.l.c., 5D53
- Cephalothin sodium**, detmn. of, ninhydrin in spectrophotometric, 12E25
- Cephmandole**, detmn. of, in serum, by h.p.l.c., 7D49
- in serum and urine, by h.p.l.c., 5D53
- Cephazolin**, detmn. of, by h.p.l.c. and microbiological methods, 8E31
- in serum and urine, by h.p.l.c., 5D53
- Cephedrine**, detmn. of, 6E60
- Cephadrine**, detmn. of, in blood plasma, by h.p.l.c., 4D80
- Ceramics**, analysis of, by PIXE, effect of target binder and backing in, 9B180
- detmn. of cadmium in, by ICP a.e.s., 7B155

Ceramics—continued

- detmn. of fluorine in, review, 7B156
 extraction of lead and cadmium from, by hot acetic acid, 4F1
Ceramides, detmn. of, in plasma, by h.p.l.c., 2D145
Cereal products, detmn. of phosphorus in, by combustion - spectrophotometry, 7F33
 detmn. of phytate in, by colorimetry, 6G2
 detmn. of pyridate metabolite in, by derivatization - g.c. - FT i.r., 9G18
Cereals, analysis of, approved methods for, 1F22B
 by near-i.r. reflectance spectrometry, 5J116
 assay of α -amylase in, by nephelometry, 4G6
 assay of β -amylase in, by spectrophotometry, 6G5
 characterization of cultivars of, by electrophoresis, review, 11G3
 detmn. of amino-acid composition of, by h.p.l.c. after derivatization with phthalaldehyde, 5G5
 detmn. of cadmium, copper and lead in, by a.a.s., 5G2
 detmn. of campechlor in, by steam-distillation - g.c., 7G35
 detmn. of 6-chloropolicolinic acid in, by t.l.c., 7H6
 detmn. of citrinin in, by t.l.c. on glycolic acid-impregnated plates, 10G6
 detmn. of crude fibre in products of, ceramic fibre filter in AOAC method for, 12F5
 detmn. of free fatty acids in lipids of, by h.p.l.c., 5G4
 detmn. of fumigant residues in stored, by g.c., 12G14
 detmn. of β -glucans in, copper-ptn. - phenol method for, 10G7
 detmn. of methionine in, by g.l.c., 11G2
 detmn. of mycotoxins in, by h.p.l.c., review, 10F12
 detmn. of *Fusarium* mycotoxins in, by quadrupole m.s. - m.s., 7G3
 detmn. of mycotoxins in, by t.l.c. and spectrophotometry, 2G5
 detmn. of nitrogen and moisture in, automated, 11G4
 detmn. of nitrogen in, automated, 8C4
 detmn. of phenylmercury compounds in, by g.c., 11G33
 detmn. of phosphine in, by spectrophotometry, 5G40
 detmn. of phytate in, by colorimetry, 6G2
 detmn. of pyrethroid insecticides in, by g.l.c. - e.c.d., 7G37
 detmn. of pyridate in, by multi-column h.p.l.c., 11G28
 detmn. of thiram in, spectrophotometric, 12G11
 detmn. of T-2 toxin and HT-2 toxin in, by h.p.l.c., 10G2
 detmn. of uranium in, by fission track counting, 3G3
 detmn. of uric acid in, by h.p.l.c., 6G4
 detmn. of zearalenone in, by h.p.l.c., 5G25
 identn. and quality testing of varieties of, by electrophoresis, 10G1
Cerebrospinal fluid, assay of adenylate kinase in, spectrophotometric, 9D253
 assay of dopamine β -monooxygenase activity in, by h.p.l.c., 12D228
 assay of enolase in, bioluminescent, 7D255
 detection of globulins in, by agarose gel electrophoresis, 12D184
 detmn. of acidic catecholamine metabolites in, by g.c., review, 10D154
 detmn. of amino-acids in, by h.p.l.c. of phthalaldehyde derivatives, 6D215
 detmn. of 5-aminolaevulinic acid in, by g.l.c., 11D173
 detmn. of carboxylic acids and 2-oxoacids in, by ion-exclusion chromatography, 6C12
 detmn. of ceftazidime in, by h.p.l.c., 11D52
 detmn. of copper in, by a.a.s., 7D20
 detmn. of C-reactive protein in, by particle-counting immunoassay, 1D168
 detmn. of β -endorphin in, by r.i.a., effect of contrast medium on, 9D196
 detmn. of fatty acids in, by t.l.c., 6D161
 detmn. of glucose in, by glucose oxidase - peroxidase procedure, interference by ascorbate in, 4D150
 by kinetic glucose dehydrogenase method, 8D106
 detmn. of haloperidol in, by g.l.c., 12D80
 detmn. of 4-hydroxy-3-methoxyphenylacetic acid and 5-hydroxyindol-3-ylacetic acid in, by h.p.l.c., g.c. - m.s. and fluorimetry, 6D163
 detmn. of 4-hydroxy-3-methoxyphenylethanedioic acid in, by h.p.l.c., 7D161
 by h.p.l.c. and g.c. - m.s., 5D167
 detmn. of hypoxanthine, xanthine, urate and creatinine in, by h.p.l.c., 2D222
 detmn. of immunoglobulin M in, by enzyme immunoassay, 3D204, 6D256
 detmn. of isoniazid and rifampicin in, by h.p.l.c., 6D118
 detmn. of maprotiline and *N*-desmethylnaprotline in, by h.p.l.c., 3D59
 detmn. of 1-methylimidazol-4-ylacetic acid in, by g.c. - m.s., 10D160
 detmn. of monoamine metabolites in, by h.p.l.c., 2D135
 detmn. of nimodipine and its metabolites in, by g.c. and h.p.l.c., 8D89
 detmn. of organic acids in, by ion-exclusion chromatography, 6D158
 detmn. of 2-oxoglutaric acid in, by capillary g.c. - m.s., 9D120
 detmn. of phenylacetic acid in, by g.c. - m.s., 6D156
 detmn. of polyamines in, by ion-exchange chromatography, 4D212
 detmn. of prealbumin in, by electro-immunoassay, 10D201
 by r.i.a., 6D250
 detmn. of proteins and albumin in, electrophoretic, 12D189
 detmn. of proteins in, 6D235, 7D191
 by isoelectric focusing, 10D186
 by precipitant - dye method, 1D155
 immunochemical, automated analyser for, 12J9
 detmn. of selenium in, by electrothermal a.a.s., 9D34

Cerebrospinal fluid—continued

- detmn. of Tamm-Horsfall-like glycoprotein in, by r.i.a., 5D208
 detmn. of teniposide and etoposide and their metabolites in, by h.p.l.c. with electrochemical detection, 9D98
 detmn. of thiamine in, by h.p.l.c., 6D288
 detmn. of uric acid in human, by reversed-phase h.p.l.c. with electrochemical detection, 12D215
 sepn. of proteins in, by Fast Protein Liquid Chromatography, 4D239
Cerium, detmn. of, 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol in spectrophotometric, 10B64
 by amperometric titration, 6B83
 by controlled-potential pulsed-current potentiometric titration, 11J145
 by h.p.l.c. with voltammetric detection, 6B82
 by reversed-phase paper chromatography, 2B35
 by stable-isotope-dilution activation analysis, 6J164
 by X-ray spectroscopy, 11B44
N-(4-chlorophenyl)cinnamohydroxamic acid in extraction - spectrophotometric, 12B66
 cinnamohydroxamic acids in spectrophotometric, 2B4
 1,5-diphenyl-3-styryl-2-pyrazoline in kinetic fluorimetric, 11B49
 in apatite - nepheline ores, by γ -activation analysis, 3B108
 in cast iron, by XRF, 7B123
 in ferrocerium, by enthalpimetry, 5B234
 in metals, by n.a.a., 5B7
 in monazite sand, by spectrophotometry, 11B46
 in ores, by polarography of catalytic wave, 10B63
 in steel, by spectrography, hollow-cathode discharge tube for, 5B236
 in steel and cast iron, spectrophotometric, 11B137
 in uraniferous rock, by instrumental n.a.a., 5B96
 by n.a.a., 10B61
 mercaptosuccinic acid in amperometric, 9B73
 phenothiazines in spectrophotometric, 12B67
 1-(2-pyridylazo)-2-naphthol in spectrophotometric, 9B74
 extraction of, from carbonate soln., alkylcatechol in, 5B126
 ion-exchange behaviour of, in hydrochloric acid, 1B53
 purpurin as reagent for, 5B25
 sepn. of, as complex with 4-hydroxybenzoic acid, on anion exchanger, 6B23
 by cation exchange on silica, 12B2
 by ion-exchange and column chromatography, 6B16
 from manganese and iron, by co-ptn. with strontium sulphate, 4B79
 from strontium, by column chromatography on manganese dioxide, 4B64
 resin in, 2B38
 sepn. of radiotracers of, by h.p.l.c., 10B19
Cerium oxide (CeO₂), detmn. of chromium in, by spectrophotometry, 1B54
Cevadine, detmn. of, by h.p.l.c., 12E14
 α -Chaconine, detmn. of, in *Solanum ptycanthum* berries, by h.p.l.c., 6E11
Chalcone oxime, detmn. of derivatives of, by potentiometric and enthalpimetric titration, 8C33
Chamomile, detmn. of azulenes in extracts of, by h.p.l.c., 11C57
Cheese, analysis of volatile compounds from, by head-space g.c., 7F64, 8F39
 detection of aflatoxin M₁ in, by t.l.c., 5F29
 detection of mycotoxins in, by h.p.l.c., 10F44
 detmn. of acrylonitrile in, by g.l.c., 4F37
 detmn. of aflatoxin M₁ in, by t.l.c., 9F29
 detmn. of amines in, by h.p.l.c., 2F6
 detmn. of carboxylic acids in, by h.p.l.c., 8F40
 detmn. of fat in cream, by i.r. spectrophotometry, 4J136
 detmn. of fatty acids in, by g.l.c., 4F44
 detmn. of free fatty acids in, by g.l.c., 10F36
 detmn. of lead and cadmium in Dutch, by flameless a.a.s., 10F45
 detmn. of natamycin on surface of, by h.p.l.c., 5F32
 detmn. of ortho- and poly-phosphates in processed, spectrophotometric, 9F18
 detmn. of sodium chloride in, comparison of methods for, 5F31
 detmn. of sodium in, by ion-selective electrode, 2F29
 detmn. of *n*-butylquinol in, by g.l.c., 8F37
 detmn. of vitamins A and E in, by h.p.l.c., 2F30
 identn. of cow's milk proteins in sheep, immunochemical, 4F43
Chemical oxygen demand, measurement of, in activated sludge, via oxygen uptake rate, 12H99
 in industrial effluents and crude sewage, open-tube method without mercury in, 12H83
 in saline waters, removal of chloride with silver, 12H80
 in sediments, samplers for, 3H54
 in sewage sludge, sediment and soil, 4H83
 in waste water, interference by sulphur dioxide in, 3H76
 review, 8H95, 9H86
 semi-automated, 12H98
 in water, by dichromate method, catalysts for, 10H67
 masking of chloride ions by silver nitrate in, 7H59
Chemiluminescence, in biochemical and pharmaceutical analysis, review, 11D1
Chemiluminescence analysis, excitation source for, active nitrogen afterglow as, 6J147
 instruments for, optimization of, 4J130

Chemiluminescence analysis—continued

- theory and applications of, review, 5A3
- Chenodeoxycholic acid**, detmn. of, during synthesis of ursodeoxycholic acid, by h.p.l.c., 5D162
- in bile, enzymic fluorimetric, 6D196
- in drugs, cholate membrane electrode for, 6E21
- in serum, enzymic - fluorimetric, 9D147
- Cherries**, detmn. of 5-hydroxytryptamine in, by spectrofluorimetry and t.l.c., 8F45
- Cherry juice**, detmn. of organic acids in, by h.p.l.c., 5F36
- Chestnuts**, detmn. of fibre components in, 4F50
- detmn. of plant hormones in Japanese, by h.p.l.c., 11G23
- Chewing-gum**, detmn. of antioxidants in, by t.l.c. or h.p.l.c., 8F12
- Chicken**, detection of meat of, in food products, immunochemical, 5F23
- detmn. of antibacterial drugs in, by h.p.l.c., 11F17
- detmn. of chloramphenicol residues in, by h.p.l.c. - m.s., 7D51
- detmn. of chlorinated 2-phenoxyphenols in, by g.l.c., 4F30
- detmn. of clopidol in, by h.p.l.c., 12F18
- detmn. of dimetridazole in, by h.p.l.c., 2F18
- detmn. of ethopabate in, by liquid - liquid partition h.p.l.c., 8F27
- detmn. of halofuginone in, by h.p.l.c., 8F28
- detmn. of lead and cadmium in, by dry-ashing - a.s., 8F4
- detmn. of lead in embryo tissue of, by spectrophotometry, 4D45
- detmn. of malonaldehyde in fat of, prevention of autoxidation in, 6F37
- detmn. of nitrofurazone and furazolidone in, by h.p.l.c., 2F14
- detmn. of pyrimethamine in, by h.p.l.c., 4F29
- detmn. of solid fat, fatty acids and triglycerides in fat of, 5F21
- detmn. of sulphonamides in, by h.p.l.c., 7F20
- detmn. of uric acid in urine, blood and tissue of, by h.p.l.c., 10D242
- detmn. of zearalenone in, h.p.l.c., 8F30
- identn. of volatile components of fried, by g.c. - m.s., 6F36
- Chick-peas**, detmn. of potassium in, by dil. acid extraction and a.s., 9G3
- Chicory**, detmn. of lactucin in root of, by h.p.l.c., 9D154
- detmn. of vitamins in, 12F26
- Chimassorb 944**, detmn. of, in polypropene, by spectrophotometry, 5C105
- Chinifon**, detmn. of, in pharmaceutical preparations, 2,6-dichloroquinone chlorimide in spectrophotometric, 12E56
- Chipboard**, detmn. of fire-proofing agents, phosphates, borates and bromides in, by t.l.c., 2C63
- detmn. of fire-proofing agents in, by i.r. spectroscopy and X-ray diffraction, 4C79
- Chitin**, detection of, in plant material, stains for, 9F12
- Chloracetylene**, detmn. of, by g.l.c., 11E28
- Chloramphenicol**, detmn. of, and its metabolites, in urine, by h.p.l.c., 3D41
- in biological fluids and pharmaceutical preparations, polarographic, 12E3
- in biological tissues, by g.l.c., 4D82
- in meat, by t.l.c. or h.p.l.c., 5F18
- in pharmaceutical preparations, 11E32
- by oxidative titration, 4E25
- iodimetric, 11E15
- sodium cobaltinitrite in spectrophotometric, 11E3
- in pharmaceutical products, with dichloroacetate-selective electrode, 5J177
- in serum, by t.l.c. - reflectance scanning, 11D94
- with its main metabolite, in injections, by polarimetry, 5E23
- with its succinate esters, in serum, by h.p.l.c., 7D52
- detmn. of intermediates in synthesis of, 9E21
- detmn. of residues of, in animal tissues, by h.p.l.c. - m.s., 7D51
- Chloranil**, detmn. of, by colorimetry, piperidine in, 4G35
- metol and sulphanilamide in spectrophotometric, 10C37
- 3-phenylthiazolidine-2,4-dione in spectrophotometric, 10C38
- Chloranilic acid**, identn. of, on t.l.c. plates, by diffuse reflectance spectrophotometry, 10C36
- Chloranilic acid barium salt**, identn. of, on t.l.c. plates, by diffuse reflectance spectrophotometry, 10C36
- Chloranilic acid potassium salt**, identn. of, on t.l.c. plates, by diffuse reflectance spectrophotometry, 10C36
- Chlorate**, detmn. of, by iodimetric titration, 8B103
- electrode for, 12J154
- in water, by electrometric titration, 7H53
- Chlordane**, detmn. of, in fish, by g.c. and m.s., 5F25
- Chlordecone**, detmn. of, by g.l.c., thermal reduction in presence of alcohol during, 8G15
- Chlordiazepoxide**, detmn. of, in aprotic media, 4E45
- in biological materials, stability-indicating, 3D55
- in brain, by h.p.l.c., 6D94
- in formulations, by difference spectrophotometry, 9E36
- in pharmaceutical preparations, by h.p.l.c., 9E35
- by spectrophotometry with picric acid, 4E43
- sodium tetrathiocyanatomercurate^{II} in gravimetric, 8E59
- Chlordiazepoxide hydrochloride**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 9E35
- Chlorella**, detmn. of manganese in, by sub-stoichiometric isotopodilution analysis, 10D46
- detmn. of pheophorbide a and pyropheophorbide a in, by reversed-phase t.l.c., 7D204
- Chlorhexidine**, detmn. of, by polarography, 6E56

Chlorhexidine, detmn. of,—continued

- in pharmaceuticals, by g.l.c., 4E52
- in urine, by h.p.l.c., 11D99
- Chlorhexidine gluconate**, detmn. of 4-chloroaniline in, by spectrophotometry, 4E54
- Chloride**, detection of, in ion chromatography, 7J47
- detmn. of, automatic analyser for, 11B120
- by argentometry, indicator for, 4B23
- by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
- by ion chromatography, 4B32
- calibration in, 8J39
- by ion chromatography with EDTA as eluent, 12B24
- by ion chromatography with electrochemical and conductometric detection, 7B104
- by Mohr method, 6B140
- by non-suppressed ion chromatography, 8B15
- by potentiometry, 8B104
- ion-selective electrode for, 2B68
- by quenching of fluorescence, sensors for, 12B129
- electrode for, 12J154
- in air and rain-water, by g.c. and a.s., 12H28
- in blood, with Ektachem 400 Analyzer, 6D9
- in boric acid, ion-chromatographic, 9B55
- in chlorinated organic solvents and sulphuric acid plating baths, by ion chromatography, 7J46
- in drinking water, by capillary free-zone electrophoresis, 3H37
- in environmental materials, by single-column ion chromatography, 2H49
- in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
- in ground water, by h.p.l.c., 1H36
- in halide mixtures, by controlled-potential pulsed-current potentiometric titration, 11J145
- in milk, clarification procedure for, 4F40
- in natural waters, by ion chromatography, 3H30
- in organic materials, by low-temp. ashing, 5C7
- in oxidizing media, with ion-selective electrodes, 7B109
- in perchlorate soln., voltammetric, 3B86
- in potable and natural water, by ion chromatography, 3H29
- in precipitation water, by ion chromatography, 12H42
- in presence of bromide, fluoride and iodide, argentimetric, 10B131
- study of Swiss Pharmacopoeia methods for, 1E23
- in presence of chlorine, by titrimetry, 7B108
- in presence of ferrocyanide, 6B141
- in process soln. from polyamide fibre production, electrode for, 10J141
- in river water, by flow-injection analysis - turbidimetry, 12H71
- by potentiometric flow-injection analysis, 2H48
- in serum, automated analyser for, 9D10
- electrode system for, 6D30
- in snow, by ion chromatography, 5H71
- in snow and ice, by ion chromatography, 8H43
- in sodium hydroxide and sulphuric acid, by ion chromatography, 1B109
- in sulphuric acid, by voltammetry, 10B118
- in titanium, ion-selective electrode in, 5B156
- in urine, sample stability in, 6D29
- spectrophotometric, 12D50
- with test strips, review, 1D2
- in water, reference electrodes for potentiometric, 10J142, 10J143
- in water and effluents, by ion chromatography, automated, 12H43
- ion-selective electrode for, capillary design for, 7J131
- ion-selective electrodes for, 12J153
- detmn. of trace, by molecular-absorption spectrometry as aluminium monochloride, 11B118
- identn. of, in metal compounds, by a.s., 5B20
- sepn. of, from bromide, by ion-pair extraction, 6J10
- from iodide and thiocyanate, by ion-pair h.p.l.c., electrochemical detector for, 8J37
- from other anions, by ion chromatography, optimization of non-suppressed, 8B16
- prediction of retention in non-suppressed, 8B17
- Chlorine**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
- in air, by laser-induced breakdown emission spectrometry, 3H18
- detmn. of, by a.e.s. with ICP, 7B107
- by molecular-absorption spectrophotometry of diatomic species, 9B136
- by photo-ionization m.s. of chloroethylene, 4B143
- in air, fluorimetric, improved sampling in, 10H30
- solid-state instrument for, 11H19
- in biological materials, chloride-selective electrode in, 6D50
- in carbon dioxide, by spectrography, 5B133
- in chlorinated water, review, 5H69
- in chlorinated wool, iodimetric, 6C52
- in environmental materials, methods and computer program for, 12H4
- in erythrocytes and plasma of pregnant women, by PIXE, 12D17
- in glass, by potentiometric titration, 12B179

Chlorine, detmn. of, —continued

- in hydraulic fluid, by n.a.a., 11C39
- in metal complexes, after combustion and selective trapping, 4C4
- in minerals, ores and rocks, by ion-selective electrode, 4B144
- in organic compounds, by ion chromatography after sodium fusion, 4C6
- in phosgene, automated galvanic analyser for, 4B101
- in plants, by ion chromatography, 7D34
- in potable water, by potentiometry, 5H70
- sensitivity of Palin's method for, 11H50
- in semiconductors, by n.a.a., 5B286
- in sodium chloride, by n.a.a., 4J155
- in soln. with other halides, by fluorescence quenching, 5J110
- in waste water, modified electrode for, 10B130
- in water, by electrometric titration, 7H53
 - by n.a.a., 5H47
 - by titrimetry, 4H68
 - instrumental, review, 7H29
- detmn. of free available, in water, 6H73
- detmn. of nitrogen trichloride in, by spectrophotometry, potentiometry or titration, 8B105
- Chlorine-36**, Cerenkov counting of, effects of sample composition and phial type on, 5J156
- detmn. of, in tissue solubilizer soln., by liquid scintillation counting, 6D44
- Chlorine compounds**, detection of organic, flame-photometric, 6J106
- detmn. of, in air, calibration of apparatus for, 8H16
- detmn. of gaseous inorganic, reference methods for, 7H16
- detmn. of organic, in avian tissues, by g.l.c., 6D144
- in chlorinated waste water, by g.c. and g.c. - m.s., 5H85
- in domestic refuse, by combustion and ion chromatography, 5H97
- in environment, 6H80
- in rain, automated sampler for, 9H66
- in water, by head-space technique and combustion, 10H74
- organic, detmn. of, in human liver, standard material for, 6D17
- Chlorine dioxide**, detmn. of, in potable water, colorimetric, 9H63
- sensitivity of Palin's method for, 11H50
- in water, by electrometric titration, 7H53
- monitoring of, in water, by automated photometry, 2C64
- Chlorins**, detmn. of, in rocks, by h.p.l.c., 6D268
- Chlorite**, detmn. of, in potable water, colorimetric, 9H63
- sensitivity of Palin's method for, 11H50
- in water, by electrometric titration, 7H53
- Chloroquinolone**, detmn. of, by t.l.c., 5G27
- Chloromethiazole**, detmn. of, in blood plasma, by h.p.l.c., 4D86
- Chloroform**, analysis of, by g.c. or i.r. spectrophotometry, 9C14
- detmn. of, by capillary g.c., 9J64
- in drinking water, by capillary g.c., 1J48
- xylene as extractant for, 7H61
- in water, by g.l.c., 10H73
- by head-space g.c., 5J56
- sampling of, in air, by sorption on Tenax-GC, 2H20
- Chlorogenic acid**, detmn. of, in hawthorn, by h.p.l.c. and t.l.c., 12E19
- Chlorogenic acids**, detmn. of, in instant coffee, by h.p.l.c., 10F55
- of potatoes, by h.p.l.c., 9F43
- of plants, by liquid chromatography, 10D131
- Chlorophacinone**, detmn. of, in animal feed, tissues and body fluids, by t.l.c., 7G38
- Chlorophyll a**, detmn. of, in leaves, by spectrophotometry, 4D272
- in phytoplankton, 3D217
- in sea-water, portable fluorimeter for, 12J102
- in vegetables, review, 7F72
- in water, spectrophotometric, inter-laboratory, 11H66
- Chlorophyll b**, detmn. of, in leaves, by spectrophotometry, 4D272
- in vegetables; review, 7F72
- Chlorophylls**, detmn. of, by h.p.l.c. with fluorimetric detection, 7D207
- in algae, by h.p.l.c., 2H64
- sampling for, 10D219
- in beans, by t.l.c. and fluorimetry, 7F76
- in maize leaves, by t.l.c. - derivative spectrophotometry, 9D224
- in plants, after carbon-14 dioxide incorporation, 8D212
- in rocks, by h.p.l.c., 6D268
- with filter fluorimeter, lamp and filter in, 10H81
- sepn. of, by h.p.l.c., 10D216
- Chloroprocaine hydrochloride**, detmn. of, in bulk drug and injection soln., by h.p.l.c., 9E40
- Chloroquine**, detmn. of, and its metabolites, in blood and plasma, by g.l.c., 11D103
- di(amine)tetrahydrocyanatocromates in spectrophotometric and volumetric, 3E44
- in blood, by h.p.l.c., 5D96
- in hair, by t.l.c. and g.c. - m.s., 12D96
- sepn. of, in blood and urine, by h.p.l.c., 3D70
- , **de-ethyl**, detmn. of, in blood, by h.p.l.c., 5D96
- in hair, by t.l.c. and g.c. - m.s., 12D96
- sepn. of, in blood and urine, by h.p.l.c., 3D70
- Chloroquine phosphate**, detection of, by t.l.c., 8E13
- detmn. of, in pharmaceutical preparations, spectrophotometric, 12E57
- Chlorothiazide**, detmn. of, in combination with methyl dopa, in pharmaceutical preparations, by h.p.l.c., 7E35

Chlorothiazide, detmn. of, —continued

- in plasma, by h.p.l.c. with flow programming, 7D90
- Chlorpheniramine maleate**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- in pharmaceutical preparations, by h.p.l.c., 4E33
- by spectrophotometry, 6E51
- Chlorpromazine**, detmn. of, and its metabolites, in biological fluids, by h.p.l.c., 3D54
- in biological materials, by t.l.c., 3D52
- by anodic voltammetry, 10E24
- ferricyanide in titrimetric, 11E26
- in biological fluids, by immunoassay, prep. of antibodies for, 3D53
- in blood and urine, by anodic-stripping voltammetry, 5E37
- in dosage forms, by synchronous luminescence spectrometry, 6E52
- in pharmaceutical preparations, sodium tetraphenylborate in potentiometric, 3E20
- in plasma, by high-performance t.l.c., 8D52
- by h.p.l.c., 5D42, 6D91
- in urine, by flow injection with voltammetric detection, 3J7
- by oxidation in aq. and nitromethane soln., 8D54
- spectrophotometric, 3B70, 8E47, 8E58
- Chlorpromazine hydrochloride**, detmn. of, in pharmaceutical preparations, chloranil in spectrophotometric, 3E25
- colorimetric, 12E40
- Chlorpropamide**, detmn. of, in tablets, by t.l.c., 3E49
- Chlorpropham**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Chlorprothixene**, detmn. of, in tablets, by ion-pair h.p.l.c., 8E63
- detmn. of *cis*- and *trans*-isomers and oxidation products of, by high-performance t.l.c., 10E23
- detmn. of 2-chlorothioxanthene-9-one in, thermal, 10E25
- Chlorpyrifos-methyl**, detmn. of, by g.c. and t.l.c., 9G26
- Chlortetracycline**, detmn. of, in fish, by t.l.c., 1F11
- , **iso**-, detmn. of, by fluorimetry, optimization of conditions for, 8E33
- Chlorthal-dimethyl**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Chlorthalidone**, detmn. of, in biological fluids, by h.p.l.c., 10D108
- in tablets, by stability-indicating method, 3E47
- Chlortoluron**, detmn. of, in water, plants and soil, by g.c., 3G17
- Chlortalol**, detmn. of, and purity test for, 11E33
- Chocolate**, analysis of, by capillary g.c., removal of contaminants in, 11F37
- detmn. of artificial sweeteners in, by h.p.l.c., 7F23
- detmn. of cocoa butter equivalents in, by g.l.c. of triglycerides, 11F14
- detmn. of iodine in, by h.p.l.c., 7F58
- detmn. of milk fat in, 10A2B
- detmn. of monoglycerides in, by g.l.c., 11F7
- 5 β -Cholan-24-*oic* acid derivatives**, sepn. of, by h.p.l.c., 4D203
- Cholecalciferol**, detmn. of, in fortified milk, by h.p.l.c., 10F39
- in ovine plasma, by h.p.l.c., 12D219
- in plasma, by h.p.l.c., antioxidants in, 6D285
- in skimmed milk powder, by h.p.l.c., 10F42
- extraction of metabolites of, from blood plasma and urine, evaluation of Sep-Pak C₁₈ cartridges for, 4D292
- , **1,25-dihydroxy**-, detmn. of, in plasma, by protein binding, 3D237
- , **24,25-dihydroxy**-, detmn. of, in serum, by h.p.l.c., 2D225
- by protein-binding assay, chromatographic sample preparation for, 4D291
- sepn. of, in biological fluids, by h.p.l.c., 2D224
- , **25-hydroxy**-, **26,23-lactone**, sepn. of, in biological fluids, by h.p.l.c., 2D224
- Cholecystokinin**, detmn. of, in intestinal tissue and blood plasma, by r.i.a., antibodies for, 1D148
- in plasma, by r.i.a., 12D176
- in plasma and tissues, by r.i.a., 3D170
- sepn. of, in tissues, by h.p.l.c., 8D180
- Cholecystokinin octapeptide sulphate**, detmn. of, in brain of rat, by h.p.l.c., electrochemical detection in, 4D231
- Cholecystokinin tetrapeptide**, detmn. of, in brain of rat, by h.p.l.c., electrochemical detection in, 4D231
- Cholestanol**, detmn. of, by h.p.l.c., esterification reagent for, 6C7
- Cholesterol**, detmn. of, by enzymic and spectrophotometric methods, accuracy of, 5D141
- by h.p.l.c., esterification reagent for, 6C7
- in bile, by t.l.c. on Chromarods, 6D181
- with enzyme electrode, 2D152
- in biological materials, by g.c., 7D118
- efficiency of hydrolysis of esters in, 10D140
- in blood, by solid-phase reflectance spectrometry, 5D214
- in blood serum, by spectrophotometry or fluorimetry, 4D178
- in control materials for detmn. of high-density lipoprotein, by pptn., 8D210
- in dairy products, by h.p.l.c., review, 9F30
- in erythrocytes and plasma, by h.p.l.c., 11D222
- in high-density lipoproteins, 1D107
- by pptn., kit for, 1D109
- by tungstophosphoric acid - magnesium chloride pptn., 7D136
- errors in, 10D141
- in lipoproteins, enzymic, 1D178
- in low-density lipoprotein of serum, after pptn. of very-low-density lipoprotein, 9D218
- in milk, by h.p.l.c., 11F22

Cholesterol, detmn. of,—*continued*

- in plasma and serum, enzymic, 10D143
- in serum, by cholesterol oxidase - 4-aminoantipyrine method, 10D142
 - by g.l.c., 5D140
 - electroenzymic, 2D151
 - enzyme sensors in, review, 5D4
 - enzymic, 1D111
 - enzymic reagent for, 1D108
 - kinetic enzymic, 4D177
 - kits for enzymic, 6D182
 - review, 12D196
- in skin, enzymic - spectrophotometric, 6D183
- detmn. of high-density-lipoprotein, in serum, 8D127
- measurement of biosynthesis of, in cell cultures, by monitoring carbon-14 activity, 4D176
- Cholesterol esterase**, assay of, by fluorimetry, 1D214
- Cholesterol 7 α -monooxygenase**, assay of, by g.c. - m.s. of substrate derivatives, 12D227
- Cholesterol myristate**, detmn. of, by differential scanning calorimetry, 5E30
- Cholesterol oxidase**, assay of, electrode for, 2D229
- Cholesterol oxides**, sepn. of, by h.p.l.c., 4D174
- Cholesterols, hydroxy-**, sepn. of, by h.p.l.c., 4D174
- Cholesterol sulphate**, detmn. of, in plasma and erythrocytes, by g.c., 1D110
- Cholesteryl esters**, detmn. of, in serum, by g.l.c., 4D175
 - in tissues, by t.l.c., 12D129
- Cholic acid**, detmn. of, in bile, enzymic fluorimetric, 6D196
 - in drugs, cholate membrane electrode for, 6E21
 - in serum, enzymic - fluorimetric, 9D147
- , **deoxy-**, **ester**, removal of, from protein soln., by adsorption on Toyopearl resin, 9D198
- Cholic acid ester**, removal of, from protein soln., by adsorption on Toyopearl resin, 9D198
- Choline**, detection of, in semen, fruit and vegetables, by t.l.c., 1D134
 - detmn. of, chromatographic, 11D168
 - in brain tissue, by h.p.l.c., 9D167
 - in erythrocytes, by n.m.r., 10D163
 - in feeding-stuffs, by photometry, 2G16
 - in tissues, enzymic, 7D165
- sepn. of, from trimethylamine, trimethylamine oxide and betaine in marine fish, chromatographic, 9D155
- , **acetyl-**, detmn. of, by demethylation - g.c., 8D158
 - chromatographic, 11D168
 - in brain tissue, by h.p.l.c., 9D167
- Choline esters**, detmn. of, by demethylation - g.c., 8D158
- Choline iodide, butyrylthio-**, detmn. of, enzyme electrode for, 5J179
- Cholinesterase**, assay of, in blood, with automatic analyser, 3D274
 - in plasma, succinylcholine-based, 9D260
 - in serum, 3D261, 9D261
- by flow-injection amperometry, 5D244
- kinetic - spectrophotometric, 7D253
- assay of variants of, in plasma, kit for, 4D326
- Cholinesterases**, assay of, in brain of rat, by micro-fluorimetry, 4D319
- Chondroitin sulphate**, detmn. of cetylpyridinium chloride in, by h.p.l.c., 7E33
- Chondroitin 4-sulphate**, detmn. of hexosamines in, by h.p.l.c., 6D151
- Chondroitin 6-sulphate**, detmn. of hexosamines in, by h.p.l.c., 6D151
- Chromate**, detmn. of, chelating resin in, 9B127
- sepn. of, from other oxoanions, by ion-exchange chromatography, 5B194
- Chromatography**, 4J84B
 - applications of, in occupational hygiene, 1H1
 - automation of, 9A29
 - columns for normal conversion of signals in, 8J14
 - computerized, 4J85B
 - computer program for simulation of detector noise in, 10A16
 - detection and integration of dynamic signals in, 9A25
 - dispersion in unsegmented continuous-flow systems in, review, 5J14
 - evaluation of peak shape and calculation of data in, computer program for, 7A15
 - high-resolution, combining g.c. and liquid chromatography, review, 12J15
 - in multi-component separations, quality of, 2J7
 - integrators for, 1J19
 - luminescence detection in, review, 5A3
 - mathematical interpretation of overlapping peaks in, 6A14
 - near-critical and supercritical fluid, mobile-phase transport properties of liquefied gases, 1J29
 - peak shape in, applicability of Edgeworth - Cramer series in study of, 9J7
 - plasma, resonance-enhanced two-photon laser ionization spectrometry, 7J94
 - resolution of overlapping peaks in, 5J20
 - selectivity in, equation for, 8J15
 - sepn. in, calculation of efficiency of, 9A26
 - size-exclusion and hydrodynamic, of particle suspensions, review, 3J32
 - smoothing of data from, Kalman filters in, 11A19
 - sorbents for, chemically modified silicas as, review, 7J14

Chromatography—*continued*

- Soviet apparatus for, 5J16
- stationary phases for, detmn. of hydroxysilyl groups on, 5J25
- di-*p*-tolyl sulphoxide as, in detmn. of gold in ores, 8B33
- supercritical fluids in, review, 4J15
- , **counter-current**, droplet, review, 9J9
- non-aqueous solvent systems for, 9J13
- of plant hormones, 9G15
- review, 12J17
- rotating-coil, in sepn. of dinitrophenyl derivatives of amino-acids, 9J11
- rotation locular, in sepn. of natural products, 9J10
- solvents for, 9J12
- toroidal coil for, 9J14
- , **gas**, adsorbents for, copper and sodium sulphates as, 3C26
- adsorption effect in, boron trihalides in, 4J68
- aerosol ionization detector for, 4H9
- analysis of copolymers by, column-inlet Curie-point pyrolyser for, 10J65
- analysis of gases by, effect of atmospheric pressure on, 2J46
- analysis of wine by, micro-reactor for removal of organic acids in, 6J73
- apparatus for storage and sample introduction in, 10C3
- automated bleed baseline compensation for, 6J104
- automated head-space technique for, with multiple detection, 6J61
- calculation of Kovats retention indices in, 8A15
- calibration system for, 6J64
- capillary, column-switching and injection valve for, 6J72
- conversion of instruments for, 8J53
- conversion of packed-column systems for, 3J53
- coupled with m.s. or FT i.r. spectrometry, 11J64
- direct observation of peak broadening in, 6J112
- effluent splitter for, 11J62
- initial section of column as guard in, 11F37
- isolation and concentration techniques for, 6J60
- on-column and split injection in, effect of temp. on, 4J58
- on-column injection in, carbon dioxide as secondary coolant for cold, 6J77
- rotary valve for, 6J79
- solute focusing for, 6J78
- optimization of sepn. number in, 1C1
- retention gap in, 5J53
- solvent effects in, 1J48, 6J65
- static coating of columns in, 3J58
- thermal peak splitting in, 6J103
- troubleshooting in, 3J50
- with columns in series, optimization of, 6J63
- carrier gases for, organic vapours as, 12J68
- vapours as, review, 3J63
- carrier gases in, effect of temp. on viscosity of, equation for, 11A22
- chemical methods in, 7J72B
- circulation, in sepn. of isomers and isotopically substituted compounds, 4J54
- co-injection in, to avoid peak distortion due to partial solvent trapping, 11J51
- column packing for, 4J69
- columns and stationary phases for, in sepn. of PAH, 7J59
- columns for, as atomizer for a.a.s., 3J77
- capillary, review, 12J60
- catalytic and adsorptive activity of capillary, 6J92
- coating of capillary, 12J62
- deactivation and coating of capillary, 6J91
- deactivation of capillary, 6J81
- effect of film thickness on efficiency of open-tubular capillary, 4J71, 4J72
- effect of modification with carbon of surface of glass capillary, 10J66
- flexible soft-glass or fused-silica capillary, 1J49
- fused-silica capillary, 9J56, 11J57
- fused-silica capillary micro-packed, 1J51
- gold-plated platinum - iridium tubing for joining glass capillary, 1J50
- high-pressure reservoir for coating of capillary, 2J56
- high-temperature coating of capillary, 2J55
- immobilization of polyoxyethylene glycol in capillary, 4J70
- in detection of fatty acids, 6J101
- industrial applications of capillary, 6J58
- introduction of large samples into capillary, 8J52
- measurement of residual activity of deactivated capillary, 12J65
- measurement of size of capillary, 6J84
- micro-bore and capillary, review, 12J16
- modification of surface of, 4J62
- narrow-bore capillary, 12J59
- narrow-bore open-tubular, 6J80
- one-step deactivation and coating of capillary, 12J63
- porous-layer capillary, 6J85
- prep. of capillary, 6J57
- prep. of fused-silica capillary, review, 11J47
- prep. of thin-walled nickel capillary, 12J58
- prep. of WCOT capillary, 2J50
- reproducibility of retention indices from capillary, 6J83
- SCOT capillary, 8J56
- silane coupling agents for medium-polarity, 6J82
- WCOT, 12J57

Chromatography, gas,—continued

- column switching in, 1J55
- combined photo-ionization detector and photo-ionization-based e.c.d. for, 1J56
- computerized data handling, selective detection, cold on-column injection and stationary phases in, 9A6B
- computerized data handling in, 9J8
- computer program for combining data from two detectors in, 8A12
- coupled with FT i.r. spectrometry and m.s., review, 5J19
- coupled with FT i.r. spectrophotometry, 6J109
- data processing in, algorithm for, 5A31
- performance of, 6J107
- review, 5J48, 6J59
- coupled with g.c. - m.s., interface for, 8J55
- coupled with microwave-induced-plasma emission spectrometry, review, 8J66
- coupled with m.s., 7J70
- data-acquisition in, 8J67
- developments in, 1J87
- for organic analysis in iron and steel laboratory, 12J74
- in biochemical analysis, 1D113
- in environmental analysis, review, 8H2, 8H3
- in microbiological analysis, 11D259B
- in organic and environmental analysis, computer program for, 9J65
- interface device for, 4J80
- interface for, 3J66
- interface for rapid change of columns in, 11J65
- microwave-induced plasma system for, 6J111
- of drugs, stable isotopes in, 1E20
- open split connection in, 12J75
- solute focusing by solvent effect in packed-bed inlets in, 11J54
- coupled with n.m.r., in analysis of high-boiling fractions, 8J65
- coupling of packed with capillary columns in, trap for, 6J102
- derivatization for, review, 9J55
- detection by solute switching and synchronous demodulation of e.c.d. signal in, 7J67
- detection in, by a.a.s., review, 11J23
- effects of light-pipe dimensions on sensitivity of FT i.r., 8J63
- matrix-isolation fluorimetric, 3J64
- detectors for, calibration, 6J108
- combined photo-ionization and far-u.v., 6J110
- constant-current e.c.d., parameters affecting response of, 12J73
- dual-flame surface-ionization thermionic, 8J64
- electron-capture, 2J59
- flame ionization, electrical conduction in, 4J75
- flame-photometric, 2J58
- Hall 700A halogen electrolytic-conductivity, 7J65
- hydrocarbon-sensitized argon ionization, 7J69
- in detection of fluorocarbons, electron-capture, 7C14
- in detmn. of nitrated PAH, thermionic, 10J75
- in detmn. of tritium-labelled compounds, 12J70
- indium-sensitized flame-photometric, 6J106
- ion-mobility, 4J77
- ion-trap, 2J61
- jet expansion - resonance multi-photon ionization system as, 10J78
- metastable ionization, for spaceflight use, 12J72
- microwave-induced plasma, 2J60
- microwave-induced plasma as element-specific, 9J61
- modified electron-capture, 10J77
- multiplex laser photoacoustic, 3J65
- nitrogen - phosphorus flame thermionic, for biochemical analysis, 6J105
- nitrogen - phosphorus-selective, response characteristics of, 7J66
- oxygen-specific, 11J63
- review, 5J9
- tangential-flow torch microwave-induced plasma in, 5J64
- detectors for capillary, electrolytic-conductivity, 9J64
- micro-volume electron-capture, 7J68
- optimum detection limits with, 5J61
- thermal-conductivity, 2J57
- developments in, review, 5J18
- dryer for gaseous samples in, 5J51
- dual-capillary-column system for analysis of complex organic mixtures, 11C5
- dual-chamber e.c.d. for, 4J78
- dynamic head-space, in detmn. of water and organic solvents in solid samples, 5C111
- e.c.d. for capillary, optimization of, 9J62
- effect of adsorption on reproducibility of retention data in, 6J86
- effect of atmospheric pressure changes on, 7J55
- electronic carrier-gas flow control in, 11J60
- element-specific detector for, 4J76
- estimation of signal-to-noise ratio in computerized processing of data from, 11A23
- fast injection system for capillary, 6J69
- flame-photometric detection in, quenching by hydrocarbons and water in, 5J63
- "flooding effect" in, effect of solvent and stationary phase polarity on, 6J95
- flow controller for, with on-column injection, 8J62

Chromatography, gas,—continued

- flow monitor for, 7J64
- forensic applications of fused-silica capillary columns in, review, 7J58
- for simulated distillation, improved precision in, 3J68
- gamma-irradiated capillary columns for, 2J49
- gas-loop injection system for, 7J56
- head-space, applications of, review, 5J49
- calibration methods for, 6H84
- in analysis of food, 6F5
- in clinical, food and pharmaceutical analysis, 5J50
- instruments for automated, 1J45
- in trace organic analysis, review, 7J54
- pneumatic sampling in, 9A27, 11J50
- quantitative analysis by, 5J56
- with multiple detectors, in analysis of cheese, 7F64
- high-pressure, apparatus for, 5J52
- high-resolution, review, 12J54
- inadequate chromatograms in, review, 3J52
- in analysis of aq. organic soln., 8C1
- in detection of phosphorus compounds, f.i.d. for, 1C12
- in detection of trace organic compounds in aq. soln., 5C24
- in detmn. of high-boiling compounds, pre-concentration column in, 4J61
- in detmn. of hydrogen in breath, instrument for, 6D26
- in detmn. of sulphur compounds, fluorine-induced-chemiluminescence detector for, 4C28
- in elementary analysis of organic compounds after pyrolytic sulphurization, 2C5
- in gas analysis, 6J5
- injection in, device for on-column, 6J76
- effect of sample solvent polarity in on-column, 4J59
- head-space and splitting systems for, 11J53
- on-column, 2J44
- programmed-temperature vaporization method for, 6J74
- solute-focusing in on-column, 2J48
- with silica gel adsorbent, 7J57
- injection in capillary, movable on-column system for, 1J46
- injection methods for, comparison of, 4J57
- injectors for, 3J55
- cold on-column, 6J71
- split and splitless mode, 6J68
- injectors for capillary, 4J60
- low-splitting-ratio, 5J55
- injectors for solids in, 4J56
- instruments for, survey of, 6J62
- interface for microwave-induced-plasma emission spectrometry with, 5J60
- in trace enrichment, by injection of large samples, 11J55
- introduction system for, 6J67
- isotope cluster, coupled with m.s., 2J91
- large-volume on-column injection of volatile solutes in, 6H83
- measurement of relative retention times in, 5C47
- measurement of retention for skewed peaks in, 3J67
- micro-catalytic pulse technique for, capillary columns in, 11J52
- microcomputer system for, 11J66
- minicomputer in data evaluation in, 4J81
- multiple internal standards in, for analysis of environmental contaminants, 6H2
- multiplex, concn. modulation in, by thermal decomposition, 6J75
- of alkanes, effect of bracketing compounds on, 6C6
- of hydrocarbons, 5C63
- of PCB in oils, statistical model for, 1A10
- on zeolites, carbon dioxide as carrier gas in, 12J69
- open-tubular, on-column stopped-flow injection in, 11J56
- peak splitting in capillary, 6J70
- phase soaking and peak broadening in, 2J43
- preparative, for high-purity chemicals, 8A2
- purge and trap, parameters in, 3H75
- pyrolysis combined with, apparatus for, 10J63
- calibration of temp. control in, 8J61
- for simultaneous detmn. of elements in organic compounds, 12C3
- in analysis of polymers, review, 5C102
- pyrolyser for, 3J54
- radio, scintillation detector for, 9J63
- radioactivity detector for use with fused-silica capillary columns in, 4J79
- reduction of needle volatilization and septum bleed in, 1J47
- retention data analysis in sepn. of benzene derivatives by, 5C40
- retention index standards in, alkyl trichloroacetates as, 4J53
- retention index system in, review, 2J40
- retention indices in, microprocessor-controlled analyser for, 3J51
- samplers for, 12J56
- sepn. in capillary, review, 10J14
- sepn. of complex environmental mixtures by, systems for, 4J55
- sepn. of isomers of dichlorophenol by, stationary phases in, 4C37
- sepn. of isotopically labelled organic compounds by, 9C2
- silylation reagents in, review, 5J54
- solute escape and its prevention in, 2J47
- solute focusing in, by means of the solvent effect, 6J66
- solute lagging in, 2J45
- solute-modulated e.c.d. for, 10J76

Chromatography, gas,—continued

- solvent focusing of vapour samples in, 6J97
 solvent trapping and peak broadening in, 2J42
 sorbents for, glycidyl methacrylate copolymers as, 5J57
 splitter for multiple detection in, 4J74
 stationary phases for, aluminium oxide as, in sepn. of hydrocarbons, 6J90
 α - and β -cyclodextrins as, 10J72
 azo-compounds for free-radical cross-linking of polysiloxane, 1J53
 biphenyl polysiloxanes as, 8J59
 blended dimethyl and methylphenyl polysiloxanes as, 7J63
 bromophenyl ethers as, 3J60
 4-(4-butylphenylazo)-3-halophenyl 4-alkoxybenzoates as liquid-crystalline, 8J58
 cross-linking of capillary, by gamma-irradiation, 1J159
 cross-linking of silicone, ozone for, 12J64
 cyanopropyl- and tolyl-polysiloxanes as, 6J88
 cyanosilicones as, 3J59
 β -cyclodextrin polymer beads as, 2J51
 cyclodextrins and methylated cyclodextrins as, 10J71
 4,4'-diethoxyazobenzene - 4-ethoxy-4'-methoxyazobenzene as liquid-crystalline, 7J62
 effect of cross-linking of, 6J93
 ethanol as conditioner in, 1J54
 4'-ethoxy-4-methoxyazobenzene as, 7C33
 eutectic inorganic salt melts as, 10J68
 evaporation of, 4J64
 Fomblin YR as, 7J60
 for sepn. of organic compounds, 3J56
 immobilization of, in capillary columns, 8J60
 immobilized methylphenylsilicones as, 6J94
 improvement of thermal stability of, 4J66
 in sepn. of amino-acid enantiomers, 3D139
 in sepn. of amino-acids, 1D138
 in sepn. of disubstituted benzenes, 5C42
 in sepn. of enantiomers, chiral, review, 2J54
 in WCOT columns, 6J89
 liquid crystals as, in sepn. of alkylbenzenes, 8C28
 liquid crystals bonded to poly(methylsiloxane) as, in sepn. of PAH, 7C45
 mesogenic polysiloxanes as, 2J52
 metal chelates in, for selective complexation, 12J67
 methylsilicone as, interactions of polar compounds with, 1J58
 micro-porous styrene - divinylbenzene - vinylpyridine copolymers as, 10J67
 modified β -cyclodextrins as, 5J59
 molten ethylpyridinium bromide as, 2J53
 molten organic salts as, 12J66
 molybdenum and tungsten sulphides as, 10J73
 peroxide cross-linking in immobilized, 8J57
 phthalocyanine-modified silica gel and Carbochrom B as, 9J57
 plasma-modified thermal carbon black as, 10J74
 polarity of porous polymer-bead, 6J98
 Polichrom A as, 10J70
 poly(methylphenethylsiloxane) as, 9J59
 poly(perfluoroalkyl ethers) as, 3J61
 polysiloxane, review, 7J61
 selection of, 6J96
 silicone gum as, ozone as *in situ* cross-linking agent in, 9J58
 stability of polyether and polyester, 8H23
 support-deactivating fluorocarbon as, 6J87
 4-t-butylcalix[8]arene in, 5J58
 zeolites on standard solid supports as, 10J69
 stationary phases for capillary, 2,2'-azobis(isobutyronitrile) for immobilization of silicone, 3J62
 cyanopropyl polysiloxane as, 4J73
 in analysis of alkynes, 12C8
 in analysis of chlorinated veratroles, 12C30
 stationary phases in, effect of temp. on polarity of, 4J65
 statistical methods of retention-data processing in, review, 7A14
 supercritical-fluid, detectors for, flame ionization and nitrogen - phosphorus thermionic, 6J43
 modified f.i.d. as, 12J71
 fluorescence detector for, 6J40
 instrumentation for, review, 12J53
 on-line system for, with FT i.r. detection, 5J28
 principles of, 6J25
 review, 12J55
 supports for, effect of PTFE coating on, 1J52
 low-adsorption-activity, 3J57
 low-surface-area carbon black as, 12J61
 polyoxyethylene glycol-treated, polysiloxane stationary phase on, 4J63
 temp.-programmable on-column injector for capillary, 8J54
 temp. programmer for, 9J60
 thermal decomposition of polyoxyethylene glycol 20M and essential oils in, effect of oxygen on, 6J99
 thick-film capillary columns in, efficiency of, 4J67
 two-column glass capillary system for, 10J64
 valve for "heart-cutting" in, 1J61

Chromatography, gas,—continued

- variable time-constant differentiation of peaks in, 10A17
 with automated thermal-desorption pyrolysis, instrumentation for, 9J54
 with e.c.d., retention index system for, 10J46
 —, **gel-permeation**, agarose medium for, characterization of, 10J48
 column packings for, carbon-coated silica gel as, 6J34
 NN-dimethylacrylamide beads as, 9J34
 ester - styrene copolymers as, 2J27
 columns for, whole-fibre cotton in, 4J41
 computer program for, 12A14
 detectors for, densitometer as, 9J35
 refractometric, in sepn. of polymers, 6J45
 detectors in, review, 1J33
 difference, for identn. of polymers, 2J29
 effect of flow rate on efficiency in, 2J28
 high-performance, of model compounds, 3C64
 in characterization of phenolic resins, 9C86
 in clinical analysis, 6J44
 optimization of efficiency in size-exclusion, by reduction in particle diam., 7J43
 quantitative, with refractometric detection, 9J33
 review, 12J47
 size-exclusion, fast FT techniques for instrumental broadening correction in, 6J46
 high-performance, in sepn. of proteins, 6D240
 supports for, optimization of, 7J23
 TSK-GEL Toyopearl HW gels and their derivatives in, review, 4J42
 —, **ion**, advantages of, over electrochemistry, 1J34
 anion suppressor for, helical filament-filled perfluorosulphonate membrane as, 8J42
 applications of, 7J46
 detection in, by flame photometry of lithium cation replacing sample ions, 5J42
 detectors for, normal pulse polarographic, 1B34
 potentiometric, 6J49
 potentiometric-sweep, 12C32
 pulsed amperometric, 3J36
 developments in, review, 5J18
 distribution coeff. in, effect of eluent electrolyte on, 6B10
 elution behaviour in suppressed-, modelling of, 6A13
 improved efficiency and sensitivity in, 12H42
 in analysis of food, 5F2
 in analysis of water, review, 10H41
 in detmn. of anions in atmospheric particulates and rain-water, 6H9
 in detmn. of inorganic anions, instrument for, 3H30
 linearization of calibration graph in, 8J39
 mobile phases for, with detection by u.v. absorbance and conductometry, aq. sodium methanesulphonate as, 3B3
 mobile phases for non-suppressed, tartaric and malic acid soln. as, 8B15
 multiple detectors and stepwise elution in, 7J47
 non-suppressed, optimization of, 8B16
 prediction of retention in, 8B17
 packing materials for, mechanism of sepn. of anions on, 1J38
 review, 3J34, 8J38, 9J36, 9J37, 12J48
 single-column, review, 7J44, 7J45
 stationary phases for, crown-ether-modified, 6J47
 suppression of mobile-phase conductivity in, by thermal decarboxylation, 8J40
 u.v. detection in, without standards, 9J38
 —, **ion-exchange**, amperometric detector for amino-acids in, 4D220
 anion-exchange, review, 4J43
 characterization of material for sepn. of proteins by, 4J45
 columns for, 2B3
 dynamic and fixed-site, 4J22
 detectors for high-performance, indirect u.v., 3J35
 in sepn. of enzymes and proteins, Cibacron blue 3G-A - Sepharose in, 9J39
 micro-bore packed column and micro flow cell u.v. detector for, 7J49
 mobile phases for, in sepn. of proteins, 3D182
 on silica gel-supported hydrous manganese dioxide, 4J44
 partition, counter-ion effects in, 6E66
 retention model for, 9J43
 review, 1J39
 —, **ion-retardation**, in sepn. of electrolytes from non-electrolytes, 3J39
 —, **liquid**, affinity, columns for, 1D166
 in biochemical analysis, 6J26
 amperometric detectors for, 1J35
 automated, monitoring of on-line processes by, review, 7J16
 capillary columns in, review, 4J16
 columns for, device for preventing drying of, 6J38
 dynamically modified capillary, 6J32
 open-tubular, 9J17
 packing and performance of micro-bore, 9J21
 reduction of retention time by shortening of, 1J25
 coupled with laser desorption m.s., 9D9
 coupled with m.s., direct interfacing for, 11J29
 interface for, 7J71
 interface systems for, 8J32
 moving-belt interface for, 10J39
 detection in, by ion-pairing probes, review, 1J37

Chromatography, liquid, detection in,—continued

- electrode composition for electrochemical, 5J38
- fluorescence, review, 12J36
- system for post-column, 1D68
- detectors for, 1J36
 - electrochemical, 12J43
 - fluorescence, 12J37
 - fluorimetric, review, 12J34
 - isolated organ preparations as, 12J45
 - light-scattering, 12J32
 - review, 8J30
- electrokinetic, with micellar soln. in open capillary tubes, 8J44
- electro-osmotic flow in open-tubular, 12J29
- electro-osmotic propulsion of mobile phase for, 1J30
- elution gradients for, with injection-loading ion-pairing technique, 9J15
- estimation of signal-to-noise ratio in computerized processing of data from, 11A23
- fraction collector for, 10J59
- high-resolution, review, 12J20
- in detection of phenols, graphite - PTFE electrodes for, 6J42
- ion-pair, retention of organic ions and neutral solutes in, 2C1
- low-dispersion connecting tubes for, 4J17
- macro-bore columns for, packing of, 5J22
- micro-bore columns for, 4J21
- microwave-induced plasma detector for, 2J60
- mobile phases for, liquid modifiers in, on graphitized carbon black, 6J36
- moving-wire f.i.d. for micro, 7J41
- of inorganic anions, review, 11B2
- open-tubular capillary, dynamically modified silica column for, 8J20
- peak-height calculation for chromatograms with overlapping peaks from, 10J47
- pre-columns for, review, 1J24
- preparative, for high-purity chemicals, 8A2
- relationship between hetp and mobile-phase linear velocity in, equations for, 5J31
- reversed-phase, application of local-composition theory in, 4J40
- review, 12J19
- sepn. of lipids by, deactivation of Florisil adsorbent for, 4D169
- solvent-generated liquid - liquid, non-aqueous ternary systems for, 6J31
- solvent selection in, for steroid analysis by, 11D148
- sorbents for, TVEX as, 1B57
- stationary phases for, characterization of C₈ - C₁₈ bonded, 9J24
 - characterization of silica-bonded, 6J33
 - in sepn. of metal ions, 5J26
 - polymeric C₁₈ compounds as bonded, 12J25
 - substitution-inert cobalt^{III} complex in bonded, 1J26
- stationary phases for adsorption, Bio-Gel P-2 as, 3J33
- stationary phases for ligand-exchange, in sepn. of phenols, 6C19
- stationary phases for open-tubular capillary, 7J24
- supports for, porous methacrylate copolymer containing epoxy groups for, 4C35
- with gaseous stationary phase, for gas analysis, 1J22
- with rapid-scanning electrochemical detection at carbon electrodes, 5J36
- , —, high-performance, 4J82B
 - agarose gels in, for sepn. of biopolymers, review, 9J22
 - anion-exchange supports for sepn. of oligonucleotides by, 5D222
 - apparatus and conditions for, review, 8J17
 - assessment of accuracy of, 7J18
 - automated optimization of, review, 7J15
 - automated system for, 6J27
 - automation of, review, 1J13
 - band-spreading in, 10J45
 - baseline compensation in, dynamically referenced flow cell for, 10J29
 - benzeneboronic acid-substituted silica for, 4J26
 - buffer-memory eluate collection in, with FT i.r. detection, 3J13
 - capillary, effect on column efficiency of packing column with glass beads in, 2J14
 - flame ionization and alkali flame ionization detection in, 3J31
 - capillary columns for, in sepn. of polar aromatic compounds, 8C26
 - characterization of C₁₈ columns in, retention indices for, 10J24
 - column design in, 12J21
 - column packings for, in detmn. of catechols, 3J16
 - stereoselective, 3J18
 - columns for, damage to packed, by incoming mobile phase, 9J20
 - e.c.d. in testing of micro-, 2J18
 - effect of quality of wall on performance of, 2J17
 - increased lifetime of reversed-phase, 2J19
 - in sepn. of hydroxylated derivatives of 7,12-dimethylbenz[a]-anthracene, 6C32
 - malfunctioning of, dyes in detection of, 2J12
 - measurement of size of capillary, 6J84
 - metal-jacketed compact glass, 10J21
 - micro-, for sepn. of hydrocarbons, 9J18
 - micro-packed and WCOT, 2J16
 - 2-μm octadecylsilica particles in short, 7J27
 - review, 8J16
 - slurry-packed capillary, 2J22
 - columns for reversed-phase, silanophilic character of, 1J27

Chromatography, liquid,—continued

- column switching in, review, 10J35
- combined with high-pressure extraction, 7J21
- computer-assisted optimization of, 4J28
- computer interface with scanning spectrometric detector for, 7D206
- computerized control and data handling in, 12J46
- computerized data handling in, 9J8
- computer program for parameter optimization in, 11A20
- coulostatic detector for, 7J38
- coupled with m.s., 9A6B
 - developments in, 1J87
 - in analysis of natural products, 7J37
 - review, 1J21, 11J28
- coupled with spectrometry, review, 12J84
- data acquisition and processing for, 7J42
- data presentation in, three-dimensional, 9J32
- detection in, amperometric, 5J37
 - amperometric and coulometric, review, 5J35
 - by a.a.s., review, 11J23
 - by ICP a.e.s., nebulizer for, 10J96
 - by post-column derivatization and fluorimetry, review, 1J32
 - electrochemical, review, 10J41
 - fluorimetric, review, 11J27
 - multi-wavelength, 11J26
 - optimization of spectrophotometric, 12J35
 - supported-mercury-drop electrode in, 5J41
- detector for volatile fatty acids in, electrokinetic, 4C18
- detectors for, adsorption - desorption voltammetric, 3J29
- amperometric and coulometric, noise and drift in, 5J39
- bi-electrode amperometric, 2J26
- computerized multi-wavelength, 7J35
- continuous β-radioactive, 8J34
- coulometric, 8J35
- differential pulse voltammetric, in detection of indole alkaloids, 11E6
- double-beam two-photon ionization, 9J31
- dual electrochemical, 8J36
- electrochemical, 1J34, 5J34, 5J40, 6J41, 10J40
 - review, 12J42
 - with reticulated vitreous-carbon working electrode, 12J40
- flame-ionization, 10J42
- flow-through electrochemical, 9J30
- fluorimetric, review, 3J28
- FT i.r., in sepn. of coal-derived products, 11C50
- ion-pair, chloride-selective electrode as, 8J37
- ion-selective electrodes as, review, 12J41
- large-volume wall-jet electrochemical, 10C45
- laser-based optical-activity, 12J44
- laser fluorimetric, 11J25
- leak-tight vitreous-carbon electrodes in, 4J38
- light-scattering, 3J26
- multi-channel photodiode-array u.v. - visible, 12J33
- of platinum-containing antineoplastics, post-column reaction, 12E59
- of proteins, electrochemical, 11D192
- on-line reference compensation in, 9J28
- peroxide - oxalate in chemiluminescence, 11J31
- peroxyoxalate chemiluminescence system for, 12J31
- photodiode array as, three-dimensional graphics and contour plotting in, 10J37
- photodiode array in high-speed, 6J122
- photo-ionization, 8J31
- plasma emission spectrometric, review, 9J29
- polarimetric, 3J30
- polarographic, 4J37
- potentiometric-sweep, 12C32
- rectilinearity of response of u.v., 7J34
- refractometric, 6J39
 - detmn. of unidentified analytes by, 7J33
- review, 1J31, 3J9
- surface-modified electrochemical, 7J39
- tensammetric, design of, 7J138
- u.v., 3J27
 - u.v. - visible spectrophotometric, 8J85
- detectors for micro, dual electrochemical, 4J34
- detectors in, processing of data from multi-channel absorbance, 4J30
- detmn. of "non-detectable" species by background signal variation in, 7J31
- developments in, review, 5J18
- dye-adduction, of non-ionic organic compounds, 6J174
- effect of flow splitting and radial injection on column performance in, 11J21
- effects of viscous heat dissipation in, 7J32
- elimination of ghost peaks in, devices for, 11J18
- fluorogenic reagents for detection of amines and thiols by, review, 10D15
- gradient elution in, distortion by equipment in, 10J43
- retention data in, 10J44
- helium - cadmium laser as fluorescence detector in, 11J24
- immobilization of alcohol dehydrogenase on silica in affinity, 5D221
- in *in vivo* analysis of central nervous system, 4D21
- in analysis of food, in analytical service laboratories, 9F3

Chromatography, liquid,—continued

- in analysis of organic compounds, 12C1
- in analysis of proteins, adsorption losses in capillary tubing in, 7D187
- in analysis of water, review, 10H41
- in detection of biogenic amine metabolites, dual electrochemical detectors for, 4J39
- in inorganic analysis, review, 3B4
- injection in, automated on-stream syringeless, 4J19
- pneumatic system for rapid, 12J23
- injectors for, 10J20
 - automated, 3J15
 - electric valve actuator in, 4J18
 - variable-volume, 12J22
- in pharmaceutical analysis, 3E1, 5E2
- in sepn. of complex mixtures, effect of column dimensions in, 11J13
- in sepn. of metal chelates, review, 6B9
- in sepn. of peptides, proteins and nucleotides, review, 6D201
- instrumentation for fast micro, 10J18
- instruments for, inexpensive, 2J13
- interface for microprocessor with instrument for, 7J12
- interface with m.s. detector for, 4J31
- interfacial tension and chromatographic equilibrium in, calculation of, 4A23
- interfacing of microcomputer and digital integrator in, 3J10
- internal standards for, 12J18
- ion-pair, dynamic equilibrium in, 8J25
- limits of speed of sepn. in, 7J20
- liquid - liquid phase systems in, 10J33
- metal ions to enhance sepn. in, review, 8B2
- micro, coupled with m.s., 9J19
 - review, 8J33
 - on-column i.r. detection in, 10J38
 - pump and flow-through cell for, 9J16
 - review, 2J8
- micro-bore columns for, in drug monitoring, 6J29
 - review, 1J20
- micro-bore column with electrochemical detection for, 3J12
- micro-bore packed columns for, 6J28
- micro-bore reversed-phase columns for, 4J23
- micro-column system for, with multi-wavelength spectrophotometric detection, 1J23
- microcomputer-controlled fraction collector for, 10J34
- micro-filter for column-end fitting in, 2J15
- microprocessor-controlled valve-switching unit for sample clean-up and trace enrichment for, 2J11
- miniaturized, post-column extraction system for, 8J29
- mobile-phase delivery systems for, extended-range pumping in, 12J27
- mobile-phase effects in, review, 8J28
- mobile-phase gradient optimization system for, adaptive intelligence in, 12J28
- mobile-phase mixing devices for use with micro-bore columns in, 4J27
- mobile phases and sample composition in, effect of addition of salt on, 12J38
- mobile phases for, computerized optimization of, 8D140, 8J26
 - crown ether-containing, 7J28
 - ethanol - and ethyl acetate - hexane as, for sepn. of steroids, 5J29
 - formamide as modifier in, 11J19
 - in sepn. of amino-acids and peptides, effect of hydrophobic additives in, 8D163
 - in sepn. of dithiocarbamates, micellar, 10G27
 - on dynamically modified silica, hexadecyltrimethylammonium bromide in, 10J28
 - optimization of, 10J17
 - simplex optimization of ternary, 10J30
- multi-capillary columns for, theory of, 4J20
- multi-dimensional, review, 10J15
- of drugs, data system for, 4E5
- of enantiomers, reversal of elution order in, 8C36
- of peptides, effect of pH on, 11D184
- on alumina, effect of water on adsorption in, 9J23
- on electrically conductive sorbents, effect of polarization on retention in, 9J26
- on micro-bore columns, FT i.r. detector for, 7J36
- on short reversed-phase columns, effect of mobile-phase composition and flow rate on resolution in, 10J31
- on silica dynamically modified with hexadecyltrimethylammonium ions, 5J32
- optimization criteria for, 5A32
- optimization of, computer program for, 10A18
 - Simplex method for, 10J19
- optimization of mobile-phase composition in reversed-phase, 7E38
- peak-compression sampling with micro-bore loops and columns in, 7J19
- photometric detector giving three-dimensional display in, 4E17
- Polish apparatus for, application of, 5C1
- post-column extraction system for, 12J30
- preparative, estimation of efficiency of, 5J21
- pressure-activated cut-off switch for, 9J27
- pulse damper for, 5J30
- pulseless pump for, 3J25
- quenched room-temp.-phosphorescence detection in, 5J11

Chromatography, liquid,—continued

- radially compressed columns for, packing of flexible-walled, 5J23
 - radio, scintillation detectors for, 11J30
 - reciprocating-pump pulse effects in, compensation for, 4J29
 - resolution of enantiomeric compounds by, 10J32
 - resolution of overlapping peaks in, Simplex algorithm for, 11A24
 - retention in, mathematical model for, 10J16
 - retention index in, alkylbenzenes for, 3C27
 - reversed-phase, bonded-phase silicas for, 2J23
 - column packings for, 3J19
 - correlation between h.p.l.c. and n.m.r. properties of bonded-phase packings for, 2J21
 - effect of ionic surfactants on sepn. of charged solutes by, 5C4
 - hydrogen-bonding stationary phases in, 1C3
 - measurement of dead vol. in, 8J19
 - measurement of void time in, 2J10
 - micellar mobile phases in, for rapid gradient changes, 8J27
 - microcomputer-assisted retention-prediction system for, 11J32
 - optimization of selectivity in, 3J23
 - packing materials for, carbon-coated silica gel as, 6J34
 - sorption behaviour of alkanols as mobile-phase moderators on, 6J37
 - silica columns for programming to elevated temp. in, 3J14
 - solutes for measurement of void time in micro-column, 2J24
 - stationary phases for, 3J22, 9J25
 - cation-exchange characteristics of silica-based, 4J24
 - fluorinated bonded, 12J24
 - n.m.r. study of, 3J20
 - with deuterated mobile phases, on-column infra-red monitoring for, 1J33
 - semi-micro, instruments for, 8J18
 - sepn. in capillary, review, 10J14
 - silylation reagents in, review, 5J54
 - solid-phase derivatization in, review, 3J11
 - solid-phase reactor for derivatization of alcohols and aldehydes in, 7J22
 - stationary and mobile phases for, liquid - liquid systems as, 7J30
 - stationary phases for, 1J28, 3C8
 - aliphatic sulphonic acid cation exchangers as, 11J36
 - alumina as, 8J21, 8J22
 - amino- and cyano-alkyl bonded silica as, for sepn. of steroids, 5J24
 - bonded to, 7J25
 - in sepn. of amino-acid enantiomers as dansyl derivatives, 7D170
 - capacity of, 11A21
 - characterization of bonded and non-bonded silica in, 8J24
 - characterization of triacetylcellulose for enantiomeric sepn. in, 7J26
 - charge-transfer, 11J17
 - computerized quality control in, 10J25
 - cross-linked alkylsilica as, 11J15
 - for sepn. of amino-acid enantiomers, urea derivatives of L-valine bonded to silica as, 10D164
 - in sepn. of alkali metals, crown ether-containing, 9B17
 - in sepn. of enantiomers, chiral, 11J16
 - in sepn. of PAH, 3J17
 - selectivity of, 7C43
 - in sepn. of racemic mixtures, 5J27
 - in sepn. of steroids, 6D185, 7D140
 - low- and high-pressure methods of packing of, 10J23
 - octyl- and diphenyl-bonded, 6J35
 - phenyl-bonded silica gels as, 10J27
 - phenyl-modified silica gel as, 9C36
 - Polish silica gel as, 10J22
 - poly(aspartic acid)-silica as, 3D174
 - polyethylene as, 10J26
 - poly(vinyl alcohol) as, 8J23
 - silicas as, 2J20
 - stationary phases for open-tubular micro-bore, 6J30
 - stopped-flow wavelength scanning in, 10J36
 - supercritical-fluid, carbon dioxide as mobile phase in, review, 5J17
 - gradient elution in, 3J24
 - modifiers for carbon dioxide as mobile phase in, 11J20
 - supports for, detmn. of hydroxysilyl groups on, 11J14
 - optimization of, 7J23
 - systems for analysis of liquid carbon dioxide aerosols by, 10C5
 - target factor analysis of u.v. spectra of unresolved fractions from, 5J33
 - tensammetric detector for steroids and cardiac glycosides in, 4J36
 - ternary-solvent gradient-elution device for, 7J29
 - variable time-constant differentiation of peaks in, 10A17
 - voltage-drop detection in, 4J35
 - with electroreductive detection, post-column deoxygenator for, 2J25
 - with i.r. spectrometry and ICP a.e.s., review, 12J39
 - with n.m.r., analysis of steroids by, 7J40
 - with photodiode-array detection, data treatment in, 7A16
 - with temp.-programming, apparatus for, 11J22
- **paper**, distribution of labelled preparations on chromatograms for, 11J38
- in analysis of water, review, 10H41
 - in sepn. of metals, estimation of efficiency of, 9J45
 - reversed-phase, stationary phase for, bis-(2-ethylhexyl) sulphoxide as, 5B249
 - with densitometry and fluorimetry, light scattering in, computer simulation of, 8J50

Chromatography—continued

- , **thin-layer**, adsorbents for, 12J51
- adsorbents for sepn. of amino-acids and peptides by, 4D219
- adsorbents in, effect of specific surface area of, 7J51
- advances in, review, 5J46
- behaviour of differently silanized silica layers in, 4J51
- calibration in, by using Michaelis - Menten function, 8J49
- linear and non-linear regression techniques in, 12A11
- chamber for time-optimized, 6J55
- computerized, in detmn. of thebaine in poppy capsules, 9E4
- computerized optimization of, 1J43
- coupled with m.s., direct transfer system for, 8J51
- detection by photothermal deflection in, 9J52
- high-performance, derivative transformations in, review, 1J44
- detection in, by scanning densitometry, 7J53
- effect of mobile-phase temp. in, 9J50
- in sepn. of sugars, plates for, 12C14
- hot-plate drying system for, 3J45
- image-analysing densitometer for, 9J51
- in analysis of water, review, 10H41
- in biochemical analysis, review, 9J49
- in detmn. of rare-earth metals, review, 12B63
- indexing device for removing adsorbent from plates in, semi-automated, 12J52
- industrial techniques in, 4J50
- in pharmaceutical analysis, review, 12J50
- in sepn. of enantiomers, on chiral adsorbent, 1C2
- in sepn. of inorganic species, review, 8J46
- in sepn. of metals, estimation of efficiency of, 9J45
- laser-fluorimetric detection in, 5C29
- mobile phases for, computerized Simplex optimization of, 9A28
- hydroxynaphthalenesulphonic acids in, 1E6
- in sepn. of natural phenols, 3J47
- liquid carbon dioxide as, 10J60
- organic modifiers in, 3J46
- mobile phases in, ΔR_F in optimization of composition of, 11J46
- multi-chamber flat-bed, apparatus for, 10J59
- multi-channel imaging spectrophotometric detector in, 5J81
- non-linear calibration in, 2J39
- of radioactively labelled organic molecules, scintillation counting system for, 11J20
- on Chromarods, review, 8J47
- optimization in, 1J41
- parallel-development, sepn. of steroids by, 10J61
- photometer for detection in, 1J77
- plates for, alkylchlorosilanes in preparation of, in sepn. of prostaglandins, 4D165
- pre-coated plates for, 3J44
- preparative, for high-purity chemicals, 8A2
- pressurized development chamber for, 8J48
- quantitation in, microcomputer-based video-densitometer for, 3J49
- reagents for, quinoline-8-thiol-type compounds as metal-chelating, 5A12
- reagents for oxidation of terpenoids before, 4C49
- reversed-phase, classification of eluents for, by spectral mapping, 10J62
- R_M values in, 12E16
- short-bed continuous development in sepn. of barbiturates by, 8E52
- silica gel thin films impregnated with silver nitrate and tungstophosphoric acid for, 6J56
- silylation reagents in, review, 5J54
- simple apparatus for multiple simultaneous application in, 4J52
- spray reagent for identn. of drugs in, 4E9
- stationary phases for, 2J38
- 3-aminopropyl-bonded silica as, for sepn. of sugars, 10C15
- dimercurimalonic acid in, 5J47
- in analysis of sugars, 1J42
- silver salts of aromatic sulphonic acids in, 7J52
- time-optimized, in sepn. of steroids, 6J54
- two-dimensional, on plastic-backed plates, in consecutive normal and reversed phases, 11J45
- two-point calibration in, 3J48
- visualization in, densitometer for, 9J53
- with densitometry and fluorimetry, light scattering in, computer simulation of, 8J50
- with thermal - u.v. differential detection, 2D128
- Chromene-magnesite**, analysis of, Japanese standard methods for, 12B84
- detmn. of metals in, 5B283
- Chromite**, detmn. of platinum in, by electrothermal a.a.s., 11B150
- Chromium**, detection of, primaquine in colorimetric, 9B125
- detmn. of, after ion-exchange sepn. from copper, by spectrophotometry, 7B99
- arsenazo reagents in spectrophotometric, 8A4
- 1,5-bis-(2-carboxyphenyl)carbazide in spectrophotometric, 2B17
- by a.a.s., anionic and non-ionic surfactants in, 12B125
- automated instrument for, 3B76
- by colorimetry, 2H16
- by flame a.a.s., statistical optimization of parameters in, 11B16
- by furnace atomic non-thermal excitation spectrometry, 6J135
- by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13

Chromium, detmn. of,—continued

- by g.c. - m.s. with isotope dilution, as acetylacetonate chelates, 1B11
- by ICP a.e.s., 9J102
- by potentiometry, EDTA and ion-selective electrode in, 4B29
- by reduction - indirect potentiometry, 8B82
- by spectrophotometry, effect of perchlorate on, 8B98
- reagent for, 5B195
- by spectrophotometry with 2-hydroxycyclohepta-2,4,6-trien-1-one, 4B135
- by stripping voltammetry, 5B198
- 1,5-dihydroxybenzylamine in photochemical titrimetric, 3B21
- dissolved from stainless-steel tableware, by g.c., 10B150
- in air, by PIXE, 10H3
- in air polluted by road traffic, 5H15
- in aluminium, by ICP a.e.s., 6B69
- in aluminium and its alloys, by flameless a.a.s., 9B58
- in aq. and acid soln., h.f. generator with argon plasma for, 4J124
- in aq. soln., by flow-injection analysis, with u.v. and refractive-index detectors in series, 4B28
- in blood, by instrumental n.a.a., 8D13
- in brines and water, by a.a.s., 4H64
- in calcium oxide, spectrographic, 11B32
- in canned fish, by a.a.s., 7F45
- in carbide inclusions in steel, by a.a.s., 3B93
- in catalysts, by a.a.s., 3B112
- in cerium dioxide, by spectrophotometry, 1B54
- in corrosion-resistant coatings on steel, by XRF, 5B233
- in environmental materials, methods and computer program for, 12H4
- in faeces, by ICP a.e.s., 10D43
- by plasma emission spectrometry, 12D22
- in fly ash, by ICP a.e.s., 12J99
- in fungicide-treated timber, spectrometric, 9C73
- in gallium arsenide, by polarography, 9B190
- in ground water, by ion exchange - a.a.s., 5H67
- in human, cow's and powdered milks, by a.a.s., 11F20
- in industrial wastes, by polarography, 5B12
- in iron and steel, by potentiometric titration, 11B135
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
- in leather ash, titrimetric, 8C96
- in leather dust, by a.a.s., 5G17
- in minerals, ores and rocks, by n.a.a., 4B194
- in motor oil, by a.a.s., 4C58
- in natural and polluted waters, by fluorimetry, 12H69
- in natural waters, by extraction and co-pptn., 3H48
- by h.p.l.c. - d.c. plasma emission spectrometry, 4B133
- in nickel ores, by radiative neutron capture, 12B156
- in organosilicon compounds, by a.a.s., 4C33
- in phosphate rock reference material, 5A16
- in plants, by a.a.s. and emission spectrography, 5D24
- crops, flour and yeast, by a.a.s., 2G1
- in plating electrolytes, by magnetometry, 5B197
- in platinum, by spectrography, after electrolytic sepn., 2B83
- in presence of vanadium, by n.a.a., 11B110
- in red mud, review, 1B47
- in rocks and soils, by a.a.s., 1B151
- in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- in silicate-rock reference materials, by a.a.s., 9B92
- in steel, by a.a.s., 7B126
- by emission spectrometry, Grimm lamp in, 10B149
- by proton-induced prompt-photon spectrometry, 7B127
- by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
- hollow-cathode discharge tube for, 5B235
- by spectrophotometry, 4B134
- by XRF, correction for interference in, 12B149
- in tanned leather, by chemiluminescence, 11C78
- in tears, by a.a.s., 2D15
- in tellurium, by n.a.a., 1B103
- in titanium alloys, by ICP a.e.s., 12B94
- in tomatoes and tomato products, by a.a.s., 12F28
- in urban dust, by a.a.s., optimized extraction procedure for, 4H15
- in urine, by a.e.s. and a.a.s., 1D31
- in waste water, by XRF, 7H73
- in water, by g.l.c. of complex with trifluoroacetylacetone, 8H68
- by ion-exchange chromatography, 5B194
- by n.a.a., 6H47
- in welding fumes, spectrophotometric, 9B126
- in work-place air and effluents, catalytic polarographic, 10H27
- in zinc-plating soln., by spectrophotometry, 2B67
- methylthiourea in, 7B113
- spectrophotometric, review, 3B18
- voltammetric, 9H58
- detmn. of antimony in, by a.a.s., 12B126
- detmn. of different oxidation states of, by flow-injection analysis, 5B216
- detmn. of geometrical isomers of chelates of, 6B27

Chromium—continued

- detmn. of total, oxidation method for, 12B124
 detmn. of trace, by inhibition of catalysis by xanthine oxidase, 11B7
 in food and biological materials, spectrophotometric, 7F10
 in plasma, by PIXE, 12D47
 in water, by a.a.s., 6B25
 detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
 extraction of, from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
 masking characteristics of complexes of, 6B127
 measurement of free acidity in soln. of, by standard addition method, 12B28
 pre-concentration of, by sorption on ferric oxide, 5B19
 sepn. of, by g.l.c. of acetylacetonate chelate, 3B17
 from cobalt and aluminium, as acetylacetonate, by g.c., 12B20
 sepn. of β -diketone complexes of, by t.l.c., 5B14
 sepn. of oxidation states of, by t.l.c., 3B20
 solvent extraction of, 4B27
 sorption of, from natural water, as its diphenylcarbazone complex, 2H47
- Chromium(III)**, detmn. of, after ion-exchange sepn. from chromium^{VI}, by spectrophotometry, 7B99
 in presence of chromium^{VI}, by flameless a.a.s., 5B196
 photometric, 11B109
 sepn. of, from chromium^{VI}, by gel chromatography, 6B128
- Chromium(III) oxide**, analysis of, by X-ray photoelectron spectrometry, 5B199
- Chromium(VI)**, detmn. of, in presence of chromium^{III}, by flameless a.a.s., 5B196
 photometric, 11B109
 in rat bile, by graphite-furnace a.a.s., 12D46
 sepn. of, from chromium^{III}, by gel chromatography, 6B128
 from chromium^{III} and copper, by ion exchange, 7B99
- Chromomycins**, sepn. of, by rotation locular counter-current chromatography, 9J10
- Chromone derivatives**, analysis of, by h.p.l.c., 10C46
 sepn. of, by h.p.l.c., substituent effect on, 5C55
- Chromotropic acid**, h.p.l.c. of, effect of ionic surfactants on, 5C4
- Chronopotentiometry**, automated, for detmn. of trace metals, 9B94
 stripping, applications of derivative-measuring technique in, 1J119
- Chrysene**, detmn. of, in soln., by laser photo-ionization, 5C53
 sepn. of, by g.l.c., polysiloxane stationary phases for, 4C43
- Chrysotile**, detection of, in building materials, by dye binding - fluorescence, 4B196
 detmn. of, in asbestos-factory dust, by X-ray diffractometry, 5H8
- Chymostatin**, detection of, enzymic, 9D275
- Chymotrypsin**, assay of, by h.p.l.c. of hydrolysis product, 3D266
 linked enzyme, 6D308
 synthesis of substrate for, 11D247
 detection of, in polyacrylamide gels containing covalently bound substrates, 9D268
 detmn. of amino-acids in hydrolysate of, by h.p.l.c., 10D168
- α -Chymotrypsin**, assay of, chromogenic substrate for, 5D255
- Chymotrypsinogen A**, sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- α -Chymotrypsinogen A**, extraction of, from polyacrylamide gels, electrophoretic, 10D187
- C. I. Acid Orange 20**, sepn. of, from other aromatic sulphonates, by electrophoresis, 4C77
- C. I. Acid Orange 7**, sepn. of, from other aromatic sulphonates, by electrophoresis, 4C77
- C. I. Acid Red 14**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
- C. I. Acid Red 51**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
- Cleer arietinum**, detmn. of isoflavones and phytoalexins in, by h.p.l.c., 5G6
- C. I. Food Red 4**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
- C. I. Food Red 7**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
- C. I. Food Red 9**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
 detmn. of uncombined intermediates in, by ion-pair liquid chromatography, 7F25
- C. I. Food Yellow 3**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
 detmn. of intermediates, subsidiary colours and reaction by-products in, by reversed-phase h.p.l.c., 12F8
 detmn. of uncombined intermediates in, by ion-pair liquid chromatography, 7F25
- C. I. Food Yellow 4**, detmn. of, in fruit juices, Aliquat 336 in extraction - spectrophotometric, 10F20
 detmn. of uncombined intermediates in, by ion-pair liquid chromatography, 7F25
- Cigarettes**, sampling of, for collaborative studies, 4G4
- Ciglitazone**, detmn. of, and its hydroxy-metabolites, in serum, by h.p.l.c., 12D103
- Cilostamide**, detmn. of, and its metabolites, in plasma, by h.p.l.c., 9D101
- Cimetidine**, detmn. of, by Kjeldahl method, 2E40
 by t.l.c. - h.p.l.c. - m.s., 5E47
- Cimetidine**, detmn. of,—continued
 by voltammetry, 5D90
 in pharmaceutical preparations, spectrophotometric, 12E53
- , **N-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
- Cimetidine derivatives**, detmn. of, by t.l.c. - h.p.l.c. - m.s., 5E47
- Cinchocaine**, detmn. of, electrode for, 8E66
- Cinchocaine hydrochloride**, detmn. of, in pharmaceutical preparations, 11E32
- Cinchonan-6',9-diol**, (9S)-10,11-dihydro-, detmn. of, in plasma, by ion-pair h.p.l.c., 8D75
- Cinchonan-9-ol**, (9S)-6'-benzoyloxy-10,11-dihydro-, detmn. of, in plasma, by ion-pair h.p.l.c., 8D75
- Cinchonine**, detmn. of, by ion-selective electrode, 4J169
- Cineole**, detmn. of, in inhalants, by g.l.c., 2E17
- Cinnamaldehyde**, detmn. of, in animal feed, urine or waste water, by g.l.c., 4G26
 in cinnamon and cassia oils, by second-derivative u.v. spectrophotometry, 3C59
- Cinnamic acid**, sepn. of, by h.p.l.c., 1G2
- , **hydroxy-**, ester, detmn. of, in celery, by h.p.l.c., 6F61
- , **nitro-**, sepn. of, by h.p.l.c., α - and β -cyclodextrin complexation in, 10C40
- Cinnamon oil**, detmn. of cinnamaldehyde in, by second-derivative u.v. spectrophotometry, 3C59
- Cinnarizine**, detmn. of, in pharmaceutical preparations, by polarography, 11E41
- Cinolazepam**, sepn. of glucuronides of, in plasma, urine and bile, by h.p.l.c., 11D77
- C. I. Pigment Red 57**, detmn. of *p*-toluidine in, by reversed-phase h.p.l.c., 12E64
- C. I. Pigment Red 57:1**, detmn. of *p*-toluidine in, by reversed-phase h.p.l.c., 12E64
- C. I. Pigment Yellow 12**, detmn. of, in air-borne particulates, by h.p.l.c., 1H23
- Circular dichroism**, cells for, thin quartz, 9J82
 FT i.r. vibrational, down to 600 cm⁻¹, 8J73
 improvements in, 8J72
- Cisplatin**, detection of, in blood plasma, by h.p.l.c. with post-column reaction detector, 12E59
 detmn. of, by h.p.l.c. with detection by chloride-assisted electrochemical oxidation, 5E53
 in biological fluids, review, 12D101
 in blood plasma or urine, by liquid chromatography, detection system for, 1D68
 in presence of diammine-*cis*-dichloro-*trans*-dihydroxyplatinum^{IV}, by h.p.l.c., 10E39
 in serum, by liquid chromatography with electrochemical detection, 5D99
- Citral**, detmn. of, in eye drops, by bromatimetric titration, 6E65
- Citrate**, detmn. of, by potentiometric titration, 2C19
 by spectrophotometry, inhibition of oxidation of 2,4-diaminophenol in, 4C16
 in milk ultra-filtrate, by spectrophotometry, 6F49
- Citrate (H)-synthase**, assay of, in beef, 11F16
- Citric acid**, detmn. of, in milk, by titration with copper, 3F17
 in orange, grapefruit and cherry juices, by h.p.l.c., 5F36
 in wine, by paper chromatography, 4F72
 identn. of, in apple juice, by liquid chromatography, 7F70
 sepn. of, by paper chromatography, 11C11
 from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- Citric acid sodium salt**, detmn. of, in antacid preparations, titrimetric, 2E52
 in pharmaceuticals, thermometric titrimetric, 12E7
 in pharmaceutical soln., by u.v. spectrophotometry, 7E17
 detmn. of impurities in soln. of, by u.v. spectrophotometry, 7E17
- Citrinin**, detection of, in cheese, by h.p.l.c., 10F44
 detmn. of, in apples and pears and their juices and jams, by t.l.c., 8F44
 in foods, by h.p.l.c., review, 10F12
 in maize, barley and peanuts, fluorimetric, 10F9
 in maize and barley, by t.l.c. on glycollic acid-impregnated plates, 10G6
 in mouldy food, by t.l.c., 5F6
- Citrus fruit**, detection of parathion in, colorimetric, 8G16
 detmn. of biphenyl in, by t.l.c., 7G31
 detmn. of pesticide residues in, 8F43
- Citrus-fruit juices**, detection of ascorbic acid in, "sandwich"-indicator stick for, 3F24
 detmn. of limonin in, by enzyme immunoassay, 11F26
 detmn. of sugar in, by conductometry, 4F53
 measurement of oxygen isotopic ratios in water of, water-extraction methods for, 9F41
- Citrus-fruit oils**, detmn. of aldehydes in cold-pressed, by g.c., 11F38
- Citrus reticulata**, detmn. of hesperidin in, by t.l.c., 9E10
- Civetone**, detmn. of, in odour glands of civet cats, by g.l.c., 9D112
- Claviceps paspali**, detmn. of lysergic acid derivatives in fermentation broth of, by r.i.a., 7E6
- Clavulanic acid**, detmn. of, in plasma or urine, by h.p.l.c. with post-column alkaline degradation, 10D68
- Clay**, analysis of, by ICP a.e.s., multi-element, 4G9

Clay, detmn. of.—continued

- by XRF, 9B181
- analysis of minerals of, by X-ray diffraction and computerized chemical mass balance, 8B128
- analysis of ultra-fine, sample preparation for, 6B175
- detmn. of alumina and silica in, by cyclic n.a.a., 11B157
- detmn. of cadmium in, by ICP a.e.s., 7B155
- detmn. of quartz in minerals of, by i.r. spectroscopy, 1B156
- Clinical analysis**, activation of nylon for immobilization of biochemical molecules in, 10D9
- application of luminescence immunoassay in, 4D18
- assessment of inaccuracy in, 4A18
- automated immunochemical analyser for, 12J9
- automated instrument for, 6D10
- automated photometric analysers in, review, 12D1
- automated photometric systems with reagents in tablet form for, 4J8
- automatic variable-time ratemeter for kinetic assays in, 6D13
- by flow cytometry, review, 11D5
- by liquid chromatography on graphitized carbon black, with liquid modifiers, 6J36
- by m.s., 10A1B
- by spectrophotometry, 6J123
- by t.l.c., screening procedure for, 4E7
- computerized control of SMAC analyser in, 6J21
- concentration of trace organic compounds in, by liquid chromatography, review, 4C2
- continuous-flow automatic analysers in, 3J5
- detmn. of ammonium ion in, by Berthelot reaction, review, 12B101
- detmn. of methotrexate in, by enzymic cycling and $p\text{CO}_2$ electrode, 12D100
- diagnostic dyes for, quality control of, 9E54
- discrete and centrifugal analysers for, 12D9
- effect of drugs on results of, 8D2
- electroanalytical photochemistry in, 4D8
- electrochemical sensors for, review, 7D9
- enzymes as reagents in, 4D3
- errors in, 9A20
- evaluation of dry reagent tests in, 1D7
- fibre-optical fluoroprobes in *in vivo*, 4D84
- fluorimetry in, 1D3
- g.c. head-space analysis in, review, 5J49
- head-space g.l.c. in, 5J50
- high-resolution two-dimensional gel electrophoresis in, 10J58
- immobilized enzymes in, review, 2D2
- interference by cefotaxime in, 4D12
- ion-selective electrodes in, review, 2D1, 5D17, 7J126
- ion-selective electrodes or flame photometry in, 11D14
- layered-coating reagent systems for, review, 10D1
- linear-regression analysis of data in, computer program for, 4A17
- long-term retrospective control procedures for monitoring instrumental performance in, 8A13
- luminescence in, review, 3D3, 5A3
- microbial enzymes as diagnostic reagents in, 4D2
- microcomputers in, review, 6A8
- Mitsubishi GL-101 Glucose Analyser for, 8J9
- monitoring of drugs in, therapeutic, review, 10D51
- new techniques and tools in, 4D7
- n.m.r. in, review, 12J114
- optical-fibre-probe colorimeter for, 6D12
- processing of data from, by microcomputer, 10J13
- Quantum II microbiology system for, 10J10
- random-access fluid technology in, 4J12
- reflectance photometer for evaluation of dry film slides in, 12J108
- safety cabinet for hazardous, 3J6
- selectivity and sensitivity in, 6D7
- Technicon RA-1000 analyser for, 9D1
- thermometers in, succinonitrile triple-point standard in calibration of, 1J2
- two-dimensional gel electrophoresis in, review, 1J40, 6D5
- with ASTRA-8 analyser, source of potential error in, 2D6
- with SMAC analyser, reduction of sample vol. for, 2D3
- with SMA II, interference in, 4D15
- zeroth-, first- and second-derivative spectrophotometry in, 4J102
- Cloquinol**, detmn. of, by enthalpimetry, 1E35
- in biological materials, by h.p.l.c., 2D100
- in ointments and creams, by h.p.l.c., 4E53
- in pharmaceutical preparations, 2,6-dichloroquinone chlorimide in spectrophotometric, 12E56
- spectrophotometric, 3E43
- Clobazam**, detmn. of, in plasma, by extraction on Extrelut columns and polarography, 10D92
- Clofibric acid**, detmn. of, in plasma and urine, by h.p.l.c., 5D105
- Clofibric acid glucuronide**, detmn. of, in plasma and urine, by h.p.l.c., 5D105
- Clomipramine**, detmn. of, in blood and urine, by g.l.c., t.l.c. and h.p.l.c., 3D58
- in plasma, by h.p.l.c., 1D53, 8D57, 10D93
- in serum or plasma, by g.l.c., 6D100
- , **desmethyl-**, detmn. of, in blood and urine, by g.l.c., t.l.c. and h.p.l.c., 3D58
- Clonazepam**, detmn. of, in plasma, 6D77
- by h.p.l.c., 11D66
- identn. of acid-hydrolysis products of, by t.l.c., h.p.l.c., m.s. and n.m.r., 9E32
- , **7-acetamido-**, detmn. of, in plasma, by h.p.l.c., 11D66
- , **7-amino-**, detmn. of, in plasma, by h.p.l.c., 11D66
- Clonidine**, detmn. of, in plasma, by g.c., fused-silica capillary columns in, 11J57
- Clopidol**, detmn. of, in chicken and eggs, by h.p.l.c., 11F17
- in chicken muscle, by h.p.l.c., 12F18
- Clothiapine**, detmn. of, by differential pulse voltammetry with graphite-coated aluminium electrode, 4E42
- Clothing**, detmn. of dicyanodiamide - formaldehyde resin on, by g.l.c., 5H35
- Clotiazepam**, detmn. of, in plasma, by extraction on Extrelut columns and polarography, 10D92
- Clover**, detmn. of canavanine in, fluorimetric, 10G14
- detmn. of flavonoids in, 10D218
- Cloxacillin**, detection of, in milk, by t.l.c., 6F51
- detmn. of, in milk, by h.p.l.c., 1F14
- in serum, by h.p.l.c., 9D46
- in urine, by t.l.c. and spectrophotometry, 8D38
- Clozapine**, detmn. of, by differential pulse voltammetry with graphite-coated aluminium electrode, 4E42
- Coal**, analysis of, 7B142
- by automated thermogravimetry, 1C26
- by n.a.a., 7J117
- by n.a.a. and ICP a.e.s., 11B158
- by near-i.r. reflectance spectrometry, 5J116
- by neutron-induced prompt γ -ray spectrometry, 1B160
- by n.m.r., 3C52
- symposium, 1A1B
- by nuclear methods, 1B159
- by spectrometry, 4B197
- by XRF, 5B276, 11A6B
- instrumental techniques for, review, 12C43
- micro-analysers in, 5B278
- thickly coated open-tubular columns in g.l.c., 4J72
- analysis of distillates of liquids derived from, by carbon-13 n.m.r. and FT i.r. spectrometry, 11C53
- analysis of functional groups in liquids derived from, 7C64
- analysis of liquefaction solvents for, by g.c. and n.m.r., 9C63
- analysis of liquids derived from, by gel-permeation chromatography, 7C65
- analysis of mineral structure of, microcomputers in, 5B272
- analysis of oil from hydrogenation of, by capillary g.c., 12C50
- analysis of oxidation products of brown, by g.c. - m.s., 7C63
- analysis of products derived from, by n.m.r., 4C61
- characterization of, by factor analysis of FT i.r. spectra, 11C46
- characterization of oxygen groups in liquids derived from, by oxygen-17 n.m.r., 9C64
- computerized classification of, 5A30
- detection of phenols and indanols in liquids derived from, by g.c. - m.s., 11C52
- detmn. of arsenic in, by graphite-furnace a.a.s., interference by aluminium in, 8B133
- detmn. of asphaltene in liquids derived from, extraction in, 4C65
- detmn. of benzene in solvent-refined, by g.c., with resonance multi-photon ion detection, 10J78
- detmn. of cadmium in, by a.a.s., digestion methods for, 4B198
- detmn. of elements in, by X-ray emission spectroscopy, 7B144
- by XRF, standards for, 8B130
- detmn. of equilibrium water content of, 11B159
- detmn. of ether-oxygen in, by n.m.r., 11C47
- detmn. of humic acids in, by thermal analysis, 8C61
- detmn. of hydroxy-groups in, by i.r. spectrophotometry or ^{13}C n.m.r. spectrometry, 6C44
- detmn. of iron, calcium and ash content of brown, by XRF and X-ray back-scattering, 11B161
- detmn. of maltenes and asphaltenes in liquids derived from, by t.l.c. - f.i.d., 9C65
- detmn. of metals in, by flame a.a.s., 11B3
- detmn. of methane in, by US Bureau of Mines "direct" method, correction factor for, 11C48
- detmn. of moisture in hard, by β -ray back-scattering, 9B12
- detmn. of nitrogen- and sulphur-containing compounds in combustion products of, 5B273
- detmn. of organic sulphur in, by scanning electron microscopy - energy-dispersive X-ray spectrometry, 5C79
- by scanning electron microscopy - X-ray analysis, 5C78
- detmn. of PAH and nitrogenous ring systems in liquids derived from, spectrofluorimetric, 11C49
- detmn. of PAH in, by matrix-isolation fluorescence spectrometry, 5C77
- detmn. of PAH in products derived from, by chromatography, 2C39
- detmn. of phenols in liquids derived from, by h.p.l.c., 2C50
- detmn. of pyrite in, by Mossbauer spectrometry, 6B176
- detmn. of silicon in, by 14-MeV n.a.a., 7B145
- detmn. of sulphur in, by a.a.s., 2B86
- by sub-stoichiometric isotope dilution, 8B131
- detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60

Coal—continued

- detmn. of titanium in, by XRF, 2B87
 detmn. of trace elements in, by a.a.s., 12B176
 detmn. of trace heavy elements in, by differential pulse polarography, 8B132
 detmn. of types of sulphur in, by reduction - titrimetry, 7B143
 detmn. of volatile matter in, 11B160
 by automated image analysis, 4C60
 detmn. of water and volatile compounds in, by g.c., 2B85
 detmn. of water in, coulometric, 11B162
 extraction of hydrogenation products of, ultrasonic, 1C27
 identn. of amino-PAH in products derived from, chromatographic, 6C45
 identn. of PAH in liquors from, by dual-column g.l.c., 9C66
 identn. of polar aromatic compounds in liquids derived from, by h.p.l.c., 3C51
 measurement of aliphatic hydrogen-to-carbon ratios in liquefaction products of, by n.m.r., 1C30
 n.m.r. of organic solids from, 12C49
 sampling and analysis of, 1C28
 sepn. of aromatic compounds in oil from, by chromatography on alumina, 9C62
 sepn. of hydroaromatic compounds and PAH in liquids derived from, by chromatography on picric acid - alumina, 4C64
 sepn. of liquefaction and pyrolysis products of, by g.c., 11C51
 sepn. of products derived from, by h.p.l.c. with FT i.r. detection, 11C50
 structural analysis of, by Raman and i.r. spectroscopy, 11C45
 thermal analysis of, review, 7C53
Coal ash, analysis of, by FT i.r. spectrometry, 5B275
 by ICP a.e.s., 1J69
 characterization of, by laser micro-probe mass analysis, 2B89
 detmn. of, in brown coal, by XRF and X-ray backscattering, 11B161
 detmn. of arsenic in, by a.a.s., 2B60
 detmn. of boron, beryllium and lithium in, by spark optical-emission spectroscopy, 5B18
 detmn. of cobalt in, by spectrophotometry, 1B161
 detmn. of gallium, thorium and uranium in, by epithermal n.a.a., 8B47
 detmn. of metals in, by flame a.a.s., 11B3
 detmn. of trace elements in, by thermal n.a.a., 5B277
 detmn. of vanadium in, by a.a.s., 7B147
Coatings, analysis of, by a.t.r. i.r. spectrometry, review, 8C91
 by h.p.l.c. and gel-permeation chromatography, 5C113
 chromatographic and spectrometric, review, 6C59
 computer-aided surface, review, 11A26
 glow-discharge spectrometry in surface, 8J93
 analysis of anti-fouling, by extraction - spectrophotometry, 9C88
 analysis of chemical vapour deposition, by secondary-ion m.s., 7B11
 characterization of anticorrosive, on steel, by X-ray photoelectron spectroscopy, 3B97
 detmn. of aluminium in, on carbon fibres, 1B43
 particle size analysis of, by electrical birefringence, 2J130
Cobalamin, detmn. of, in biological materials, 2D226
—, cyano-, detmn. of, "boil" and "no-boil" kits in, 7D230
 in blood and serum, by h.p.l.c., 12D147
 in multivitamin preparations, by h.p.l.c., 9E30
 in plasma, 1D196
 in serum, in presence of folate, by r.i.a., 4D294
 picolinamidoxime 1-oxide in spectrophotometric, 10B155
 molecular secondary-ion m.s. of, 3J90
 sepn. of, from other cobalamin derivatives, by t.l.c., 3D241
 from riboflavin, by h.p.l.c., three-dimensional data presentation in, 9J32
—, dicyano-, sepn. of, from other cobalamin derivatives, by t.l.c., 3D241
—, hydroxo-, sepn. of, from other cobalamin derivatives, by t.l.c., 3D241
—, isocyano-, sepn. of, from other cobalamin derivatives, by t.l.c., 3D241
Cobalt, analysis of powdered, clustering algorithm for, 7A10
 detection of, colorimetric spot test for, 1B134
 detmn. of, 2-acetylpyridine benzoylhydrazone in a.a.s., 10B10
 after pre-concentration on Norit A as di-(2-pyridyl) ketone
 2-pyridylhydrazone complex, 5B223
 4-[1-(2-aminophenylimino)ethyl]resorcinol in spectrophotometric, 10B157
 amperometric titrimetric, 10B13
 as complexes with organic compounds, by optoacoustic spectrometry, 4B18
 benzyl 2-pyridyl ketone thiosemicarbazone in spectrophotometric, 3B99
 by a.a.s., reagent for, 4B15
 by amperometry, 5B17
 by conductometric titration with 3,5-xylidine-*NN*-diacetate, 5B13
 by d.c. polarography, 6B163
 by flame a.a.s., statistical optimization of parameters in, 11B16
 by flow-injection analysis, 10H63
 by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
 by g.c. as dialkylthiocarbamate chelates, 1B14
 by gravimetry with quinolin-8-amine, 4B170
 by h.p.l.c. as chelates, 6B47
 by h.p.l.c. of 4-(2-pyridylazo)resorcinol chelate, 10B135
 by photometry, 5B238

Cobalt, detmn. of,—*continued*

- by spectrophotometry, 5B215
 3-bromo-2-hydroxy-5-methylacetophenone hydrazone in, 4B45
 dithio-oxamide - heterocyclic base complexes in, 4B171
 2'-hydroxy-4-methoxy-5'-methylchalcone oxime in, 4B172
 by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
 by voltammetry, as complex with alkylxanthate and nitrogen base, 5B24
 by voltammetry and polarography, review, 3B100
 by voltammetry of alkylxanthate or dialkylthiocarbamate complexes, 9B141
 catalytic flow-injection spectrophotometric, 12B150
 chemiluminescence detection in continuous-flow and flow-injection, 7B129
in situ complex formation in spectrophotometric, 3B31
 2,6-diamino-5-nitrosopyrimidin-4-ol in spectrophotometric, 3B102
 1,5-dihydrodiboflavine in photochemical titrimetric, 3B21
 di-2-pyridyl ketone 2-quinolylhydrazone in spectrophotometric, 10B138
 2-furaldehyde thiosemicarbazone in spectrophotometric, 7B132
 4-hydroxy-3-methoxybenzaldehyde thiosemicarbazone in spectrophotometric, 1B135
 2-hydroxy-1-naphthaldoxime in spectrophotometric, 10B153
 4-hydroxy-3-nitronaphthalene-1-sulphonic acid in ion-pair liquid chromatography, 10B154
 in alloys, by Quantometer, 5B239
 by spectrophotometry, phenanthrenequinone monoxime in, 2B78
 in alloys with samarium, by complexometric titration, 5B99
 in beef and bovine organs, by voltammetry, 12D37
 in binary mixtures, by spectrophotometry, 5B214
 in biological and environmental materials, by voltammetry, 12D24
 in biological materials, by extraction - h.p.l.c., 12D29
 by spectrophotometry, 7D35
 in biological tissues, by a.e.s., optimization of volatilization in, 5D37
 in blood, by instrumental n.a.a., 8D13
 in bone, by ICP a.e.s., 2D10
 in catalysts, by a.a.s., 3B112
 in coal fly ash, by spectrophotometry, 1B161
 indicator system for titrimetric, 10B12
 in films, in presence of nickel, by ion-exchange - spectrophotometry, 4B174
 in iron-, nickel- and cobalt-based alloys, colorimetric, 9B153
 in iron artefacts, by n.a.a. and a.a.s., 11B14
 in iron - manganese nodules, by a.f.s., 4B19
 in iron ores, by XRF, 6B152
 in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
 in lithium fluoride, by extraction - spectrophotometry, 11B21
 in luminophores, by a.a.s., 1B167
 in milk powder and biological materials, ashing method for voltammetric, 7F61
 in minerals, ores and rocks, by n.a.a., 4B194
 in mixtures, by spectrophotometry, 6B20
 in nickel, by spectrophotometry, 6B167
 in ores, spectrophotometric, 3B101
 in phosphate rock reference material, 5A16
 in platinum, by spectrography, after electrolytic sepn., 2B83
 in potassium polyphosphate fertilizer, by a.c. polarography, 5G19
 in presence of iron, by spectrophotometry, 4B173
 in river water, by h.p.l.c., 7H32
 in rock, by XRF, 2J66
 in rocks and soils, by a.a.s., 1B151
 in sea- and waste water, by solvent extraction - XRF, 11B13
 in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
 in silicate-rock reference materials, by a.a.s., 9B92
 in silicate rocks, by a.a.s., 4B108
 in steel, by fluorimetry and spectrophotometry, 2B73
 by ICP a.e.s., 1B122
 by proton-induced prompt-photon spectrometry, 7B127
 by spectrophotometry, 1B129, 6B123
 in steel and nickel alloys, by polarography, 4B166
 in table salt, 8F49
 in tears, by a.a.s., 2D15
 in tellurium, by n.a.a., 1B103
 in urban dust, by a.a.s., optimized extraction procedure for, 4H15
 in water, by n.a.a., with pre-concentration by co-precipitation of dithizonate complex on phenolphthalein, 4H58
 reagents for spectrophotometric, 2B76
 in water and sediments, 5-diethylamino-2-(1,2,4-triazol-3-ylazo)-phenol in spectrophotometric, 11H52
 in zinc and cadmium sulphides, by extraction - spectrophotometry, 9B46
 extraction - spectrographic, 10B45
 in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
 in zinc sulphate electroplating soln., by h.p.l.c., 4B67
 4-methoxy-2-(5-methylisoxazol-2-ylazo)phenol in spectrophotometric, 10B35

Cobalt, detmn. of.—*continued*

- 1-nitroso-2-naphthol in differential pulse polarographic, 2B74
on silica, by XRF, 7B131
1,10-phenanthroline and cation in spectrophotometric, 5B15
1,10-phenanthroline in spectrophotometric, 8B122
picolinaldehyde, 2-pyridylhydrazine in fluorimetric, 2B75
picolinamidoxime 1-oxide in spectrophotometric, 10B155
reagents for spectrophotometric, 1B133, 8A5
segmentation in ring-oven fluorimetric, 9J105
sodium dibutylselenocarbamate in spectrophotometric, 12B16
sodium 1,2-naphthoquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
spectrophotometric, 6B165, 7B130, 8B124, 9B152, 10B156
thiocyanate complex in colorimetric, 6B164
2,4,6-trihydroxydithiobenzoic acid in spectrophotometric, 10B134
detmn. of boron in, by ICP a.e.s., 11B40
detmn. of chelates of, by t.l.c. with photoacoustic detection, 4B168
detmn. of geometrical isomers of chelates of, 6B27
detmn. of trace, by a.a.s., 3B103
in food and biological reference materials, by n.a.a., 9F4
in water, by a.a.s., 6B25
detmn. of trace impurities in purified, by proton-activation analysis, 11B148
extraction of, as ternary perchlorate - benzil mono-(2-pyridylhydraz-one) complex, 7B28
ethyl 1-hydroxy-2-naphthyl ketoxime in, 11B146
from water, by adsorption on iminodiacetic acid - cellulose, 2H31
hexadecylpyridinium chloride and sulpharsen in, 4B169
in presence of non-ionic surfactant, 7B23
tall oil and pyridine in, 12B25
triphenyl-phosphine or -arsine oxide and 2-thenyltrifluoroacetone in mixed-ligand, 11B147
unsaturated macrocyclic tetra-amines and carboxylic acids in, 4B163
pre-concentration of, by sorption on ferric oxide, 5B19
purpurin as reagent for, 5B25
sepn. of, by g.l.c. of acetylacetonate chelate, 3B17
by ion flotation, 4B17
from chromium and aluminium, as acetylacetonate, by g.c., 12B20
from metallurgical soln., sorbent for, 11B144
from other metals, polystyrene-based chelating resin for, 3B19
from other radio-tracers, by paper chromatography, 4B21
sepn. of β -diketone complexes of, by t.l.c., 5B14
sepn. of radiotracers of, by h.p.l.c., 10B19
Cobalt-57, detmn. of, non-destructive system for, design of, 5A40
Cobalt-60, detmn. of, in sea-water, radiometric, 11H51
Cobalt, hexa-ammine-, sorption of, on heteropoly 2,4,6-trimethylpyridinium tungsto- and molybdo-arsenates, 2B77
—, penta-ammine-(5-cyanotetrazol-2-ylato)-, detmn. of, by isotachopheresis, 2C78
—, tris(ethylenediamine)-, sorption of, on heteropoly 2,4,6-trimethylpyridinium tungsto- and molybdo-arsenates, 2B77
Cobalt alloys, analysis of, by Quantometer, 5B239
analysis of samarium-containing, complexometric titrimetric, 5B99
analysis of surface of, by low-wattage glow-discharge emission spectrometry, 12B44
detmn. of boron in, by a.a.s., 12B137
detmn. of cobalt in, colorimetric, 9B153
Cobalt complexes, sepn. of, by high-performance paper electrophoresis, 11B145
Cobalt salts, detmn. of copper in, 5B240
Cobamides, sepn. of, from *Methanobacterium bryantii*, by h.p.l.c., 11D224
Cocaine, detection of, in illicit drugs, by g.l.c., 6E6
detection of adulterants and diluents in illicit, by g.l.c., 11E4
detmn. of, by h.p.l.c., 2E5
in blood, plasma and urine, by g.l.c., stability of samples for, 4D73
in plasma, by automated g.c., 11D44
by h.p.l.c., 2D72
in post-mortem fluids and liver, by computerized g.c. - m.s., 12D59
detmn. of local anaesthetics and amines in suspected illicit, by h.p.l.c., 8E12
identn. of ethyl esters of arylhydroxy- and arylhydroxymethoxy-metabolites of, in urine, by g.c. and m.s., 10D56
m.s. of, after generation of ions by secondary-ion m.s., 9J115
sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
Cocao, detmn. of bromide residues in, by h.p.l.c., 7F32
detmn. of degree of roasting of, by h.p.l.c., 5F14
detmn. of glucose and sucrose in, enzymic - electrometric, 7F12
detmn. of milk fat in, 10A2B
detmn. of non-starch polysaccharides in, by hydrolysis - g.l.c., 6F71
detmn. of theobromine in, by t.l.c., 6F27
Cocoa beans, detection of insect fragments in, stains for, 9F12
detmn. of (-)-epicatechin in, by h.p.l.c., 1G4
detmn. of iodine in, by h.p.l.c., 7F58
detmn. of ochratoxin A in, by h.p.l.c., 2F7
identn. of fatty acids in, by g.l.c., 4F21
Cocoa butter, detmn. of solids content of, 11F39
identn. of fatty acids in, by g.l.c., 4F21
Cocoa products, detmn. of theobromine in, by t.l.c., 6F27
Coconut milk, detmn. of cytokinins in, by g.l.c., 5G26
Coconut oil, detmn. of tritoyl phosphate in, colorimetric, 10F70
Cod, detmn. of cadmium in frozen, inter-laboratory study in, 4F32
Codeine, detmn. of, by anodic voltammetry at a rotating platinum or gold electrode, 8E11
in biological fluids, by enzyme immunoassay and h.p.l.c., 11D42
in plasma, by g.l.c., 5D47
in serum and urine, by h.p.l.c., 5D45
in urine, by g.l.c., 3D32
with its metabolites, in urine, by g.c. - m.s., 2D52
by h.p.l.c., 11D41
detmn. of by-products in, by h.p.l.c., t.l.c., g.l.c. and n.m.r., 6E8
electrophoresis of, indicator for, 6E2
g.c. of perfluoroacylated, capillary columns for, 6E7
sepn. of, by t.l.c., 1E7
—, acetyl-, detection of, in illicit narcotics, by g.l.c., 11E4
—, dihydro-, detmn. of, by anodic voltammetry at a rotating platinum or gold electrode, 8E11
sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
Codeine phosphate, detmn. of, by ion-pair extraction - titrimetry, 8E7
in formulations, by h.p.l.c. with post-column reaction detection, 4E12
Co-dergocrine, detmn. of components of, in plasma, by r.i.a., 10D55
Co-dergocrine mesylate, detmn. of, in plasma, by h.p.l.c., 2D54
Cod-liver oil, detmn. of DDT, DDE, TDE and DDT metabolites in, by g.l.c., 2G25
detmn. of gamma-HCH in, by g.l.c., 2F20
detmn. of PCB in, 11G18
Coenzyme A, detmn. of, in cells or tissues, radioisotopic, 6D275
—, acyl-, detmn. of, in heart, liver and liver mitochondria, by h.p.l.c., 4D281
in liver and lung, by g.l.c., 6D318
—, malonyl-, detmn. of, in heart, kidney and liver, enzymic, 11D218
Coenzyme F₄₂₀, detmn. of, in methanogenic sludge, by h.p.l.c. - fluorimetry, 7H75
Coenzyme Q, detmn. of reduced and oxidized, simultaneously, by h.p.l.c. with dual electrochemical detection, 8J36
Coenzymes, detmn. of, in methanogenic bacteria, by h.p.l.c., 1D150
Coffea arabica, analysis of aroma of berries of, by g.c. - FT i.r. spectrometry, 10F56
Coffee, analysis of, 8A1B
analysis of aroma of, by head-space g.l.c., 10F58
detection of barley in, by g.l.c., 4F66
detmn. of aroma compounds in, by g.c., 4F67
detmn. of bound copper, iron and zinc in, by h.p.l.c. with post-column derivatization, 6F70
detmn. of caffeine, theophylline and theobromine in, colorimetric, 10E13
detmn. of caffeine in, spectrophotometric reference method for, 4F64
detmn. of chlorogenic acids in instant, by h.p.l.c., 10F55
detmn. of insoluble matter in instant, by filtration - gravimetry, 4F63
detmn. of iron in, by spectrophotometry, 4H69
detmn. of ochratoxin A in beans of, by h.p.l.c., 9F44
detmn. of 5-oxopyrrolidine-2-carboxylic acid in, by gel electrophoresis - g.c., 10F57
detmn. of trigonelline in, by polarography, 2F39
identn. of trace volatile organic compounds in, by g.c. and g.c. - m.s., 3F22
measurement of loss in mass at 70° of instant, 4F65
sampling of, in cases with liners, 8F53
Coins, detmn. of silver in, by amperometry, 4B44
Coke, analysis of, by XRF and X-ray diffraction, standards for, 2A7
micro-analyses in, 5B278
detmn. of amorphous and crystalline carbon in, by X-ray diffraction, 11B163
detmn. of ash in, by XRF spectroscopy, 4B199
monitoring of hydrogen sulphide from production of, ion-selective electrode for, 2B88
Colchicine, detmn. of, by anodic voltammetry, 12E13
in *Iphigenia* spp., by paper chromatography, 6E12
Cold cream, identn. of ingredients of, by h.p.l.c., 2E53
Collagenase, assay of, in human skin, by ELISA, 8D250
in liver, by r.i.a., 11D251
Colorimetry, micro-, in analysis of biological fluids, review, 12D3
Colostrum, detmn. of short-chain acylcarnitines in, by radioisotopic exchange, 6D225
Colupulone, detmn. of oxidation products of, in hops and beer, by h.p.l.c., 8F56
Combustion gases, analysis of, by Raman spectroscopy, 5C96
Combustion products, analysis of, in fire-side boiler deposits, 6B178
Complement component C9, detmn. of, in biological fluids, immunoradiometric, 6D259
in serum, by chemiluminescent energy-transfer immunoassay, 4D6
Compost, analysis of, by carbon-13 n.m.r., 12H94
Computer applications, databases, for toxicological analysis, 7D6
digital signal processors in, 12J14
for control of array of surface-barrier α -particle detectors, 11D19
for h.p.l.c. - photodiode-array detection data, 7A16
high-level languages in, for data acquisition on microcomputers, 4A22
in acid - base potentiometric titration, for three-dimensional plotting, 11A29

Computer applications—continued

- in analysis of nuclear back-scattering spectra, 12A16
 - in analysis of proteins, by two-dimensional electrophoresis, 10D197
 - in analysis of soil, 10G10
 - in analytical chemistry, 1A1
 - in automated analysis and data processing, 6J17
 - in automated and flow-injection analysis, 11J11
 - in calculation of standard deviation, errors in, 7A13
 - in calculation of weighting factors for least squares analysis, 10A15
 - in control of combined spectrophotometer - potentiostat, 3A18
 - in control of SMAC analyser, 6J21
 - in control of stepper-motors in spectrometry, 8J13
 - in data processing and control of analytical instruments, 11J10
 - in densitometry of two-dimensional electropherograms, 10J53
 - in detmn. of amino-acids, on-line data acquisition in, 2D173
 - in g.c. of complex mixtures, 11J48
 - in handling of chromatographic data, 9J8
 - in h.p.l.c., 12J46
 - digital integrator interfaced with microcomputer for, 3J10
 - in identn. of low-boiling hydrocarbons, microprocessor in, 5C67
 - in ion micro-probe analysis, software for, 7J104
 - in i.r. detmn. of total inorganic carbon in water, 12H62
 - in i.r. spectrometry, review, 12J109
 - in iterative deconvolution of X-ray fluorescence spectra, smoothing methods for, 11A27
 - in laboratory, 4A34B
 - in m.s. library search system, 8A22
 - in optimization of flow-injection analysis, 5A42
 - in optimization of mobile-phase gradient in h.p.l.c., 12J28
 - in processing of data from clinical analysers, 10J13
 - in processing of spectroscopic data arrays, 9A33
 - in quality control of stationary phases for h.p.l.c., 10J25
 - in Raman spectrometry, for data processing, 8J105
 - in γ -ray spectrometry, microprocessor-controlled output system for, 9J122
 - in redox potentiometric titration, for three-dimensional plotting, 11A30
 - in r.i.a., for construction of calibration graph, 9A38
 - in Simplex optimization of t.l.c. mobile-phase mixtures, 9A28
 - in spectrometry, 8A21
 - in spectrophotometry, micro system for, 6J113
 - interface, for a.a.s., 7J82
 - interface for binary-coded decimal to binary code conversion for, 11J12
 - interfaces for connecting microcomputers and laboratory apparatus, review, 6J24
 - interface system for neutron diffraction spectrometry, 8J114
 - in thermal analysis, 9J141, 9J144
 - in thermal analysis - m.s., 9J142
 - in t.l.c. of thebaine in poppy capsules, 9E4
 - in weighing, 1J3
 - micro-, for densitometer in electrophoresis of serum proteins, 12D185
 - in clinical and pharmaceutical analysis, review, 6A8
 - in control of spectrophotometer, 1J18
 - in g.c., 11J66
 - interfacing of X-ray photoelectron spectrometer with, 1J83
 - Monte Carlo simulation, for correction for heterogeneity of matrix in XRF, 10A19
- Computer programs**, for automated detmn. of proteins, DNA and enzymes, 10D11
- for calculation of alcohol proof from specific gravity measurements, 7F90
 - for calculation of detection and detmn. limits, 1A9
 - for calculation of relative intensities in XRF, 5A34
 - for classification of coals, 5A30
 - for concn. depth profiles of deuterium, 5A29
 - for control of thermobalance - m.s. system, 7A21
 - for data processing in m.s., 7A20
 - for data reduction in enzyme immunoassay, 10D4
 - for densitometry in emission spectrography, 9J100
 - for detmn. of proteins in serum by electrophoresis, 6D234
 - for detmn. of radon and thoron daughters, in air, by α -particle counting, 9H13
 - for electron micro-probe analysis, Gaussian equations in, 11J83
 - for energy-dispersive multi-element XRF, 3A12
 - for estimating background in gamma-ray spectrometry, 8A25
 - for evaluation of chromatographic data, 7A15
 - for evaluation of γ -ray spectra, 2A20
 - for evaluation of standard methods for pharmaceutical analysis, 10E4
 - for g.c. - m.s., in organic and environmental analysis, 9J65
 - for gel-permeation chromatography, 12A14
 - for hierarchical system of instrumentation, 9A24
 - for infra-red spectra interpretation, 6J150
 - for interpretation of i.r. spectra, 9A23
 - for interpretation of vapour-phase i.r. spectra, 9A22
 - for linear regression analysis of multi-component analytical data, 4A17
 - for matrix-effect correction in secondary-ion m.s. of aluminium gallium arsenide, 8B139
 - for optimization of sepn. in h.p.l.c., 10A18
 - for parameter optimization in h.p.l.c., 11A20
 - for peak detection and integration in detmn. of amino-acids, 2D174
 - for processing of data from ion-selective electrodes, 7A22

Computer programs—continued

- for processing of t.l.c. - densitometric data for lipids, 12D130
 - for radioactivation analysis, 6A12
 - for resolution of overlapping peaks in m.s., 10A21
 - for retrieval of mass spectra of polymers from library, 9C83
 - for simulation of detector noise in chromatography, 10A16
 - for spectrographic data processing, 2A14
 - for spectrophotometric analysis of multi-component mixtures, 6A17
 - for γ -spectrum analysis, 12A13
 - for standardization in n.a.a., 10J119
 - for thick-target PIXE analysis, 12A15
 - in g.c., for combining data from two detectors, 8A12
 - in g.l.c. of essential oil - cyclodextrin complexes, 8C71
 - in trace analysis, of environmental materials, by XRF, 12H4
- Concanavalin A**, sepn. of, from bovine serum albumin, by affinity chromatography, 1D166
- Concrete**, analysis of corrosion products of, 7H2
- detmn. of surfactants in additives for, by h.p.l.c., 9C67
- Conductometry**, apparatus for continuous, 4J175
- flow-through cell for, 4J174
 - in concn. of aq. soln., device for, 5J9
- Confectionery**, detmn. of dyes in, by h.p.l.c., clean-up for, 2F13
- detmn. of menthol in, by g.c., 4E63
 - detmn. of pesticide residues in, by g.c., 4F9
 - identn. of coal-tar dyes in, by t.l.c., 6F19
- Conifer**, detmn. of sulphur in needles of, by ICP a.e.s after nitric acid digestion, 12D44
- Continuous-flow analysis**, algorithm for measurement of peak amplitudes in segmented, 10A23
- ion-selective electrodes in, 7J8
 - porous tubular electrodes with internal stirring in, 2J5
 - sample preparation for, 1J17
 - systems for, review, 6J19
- Convallotoxin**, detmn. of, in plants, enzymic, 2E15
- Cookware**, detmn. of trace elements in leachate from enamelled, 9F2
- extraction of lead and cadmium from, by hot acetic acid, 4F1
- Copolymers**, analysis of, by pyrolysis - g.c., 2C71
- by pyrolysis g.c., 10J65
 - analysis of acrylate, by pyrolysis - g.c., 12C72
 - detmn. of acrylates and methacrylates in, by titrimetry, 2C69
- , **acrylamide - (methacryloyloxyethyl)trimethylammonium methyl sulphate**, measurement of monomer ratio in, by i.r. spectrometry, 1C38
- , **acrylic acid - melamine**, detmn. of nitroxide radical in, by e.s.r., 7C95
- , **acrylonitrile - butadiene - styrene**, detmn. of α -methylstyrene in, by g.l.c., 6F22
- , **acrylonitrile - styrene**, detmn. of α -methylstyrene in, by g.l.c., 6F22
- , **butadiene - styrene**, detmn. of 2,6-di-*t*-butyl-*p*-cresol in, by pyrolysis g.c. - m.s., 4C89
- detmn. of volatile unsaturated compounds in, 8C94
- , **divinylbenzene - styrene**, analysis of, by g.l.c., 4C92
- , **ethylene - vinyl acetate**, detmn. of vinyl acetate in, by i.r. spectrometry, 3C66
- by i.r. spectrophotometry, n.m.r. or pyrolysis, 7C94
- Copovithane**, detmn. of, in plasma or urine, by h.p.l.c., 8D85
- Copper**, concn. of traces of, by complexation with tiron and anion exchange, 5B23
- detection of, in oxides, by XRF, 9B26
 - detmn. of, 2-acetylpyridine benzoylhydrazine in a.a.s., 10B10
 - after ion-exchange sepn. from chromium^{VI}, by spectrophotometry, 7B99
 - after pre-concentration on Norit A as di-(2-pyridyl) ketone 2-pyridylhydrazone complex, 5B223
 - amperometric titrimetric, 10B13
 - as complexes with organic compounds, by optoacoustic spectrometry, 4B18
 - benzimidazole in gravimetric, 10B33
 - by a.a.s., reagent for, 4B15
 - by a.a.s. after extraction with macrocyclic formazans, 9B23
 - by a.a.s. with concentric-tube atomizer, 9B11
 - by anodic stripping - catalysis, 12B36
 - by anodic-stripping voltammetry, 5J190, 6B17
 - automatic compensation for cathode area in, 3J118
 - electrode for, 3J117
 - interference of zinc and cadmium in, 5B39
 - sodium amalgamation in, 5J188
 - by chelatometric titration, removal of phosphate in, 11B23
 - by complexometry with 1-(2-pyridylazo)-2-naphthol as indicator, effect of non-ionic surfactants on, 5B16
 - by conductometric titration with 3,5-xyldine-*NN*-diacetate, 5B13
 - by coulometric titration, 8B9
 - by differential pulse voltammetry, electrodes in, 2B12
 - by extraction - d.c. plasma a.e.s., 7B27
 - by flame a.a.s., statistical optimization of parameters in, 11B16
 - by fluorescence methods, review, 11B22
 - by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
 - by g.c. as dialkyldithiocarbamate chelates, 1B14
 - by g.c. - m.s. with isotope dilution, as acetylacetone chelates, 1B11
 - by gravimetry, reagent for, 4B41
 - by h.p.l.c., 3B11, 6B46

Copper, detmn. of.—continued

- by h.p.l.c. as chelates, 6B47
- by h.p.l.c. of 4-(2-pyridylazo)resorcinol chelate, 10B135
- by ion exchange, resin for, bonding of quinolin-8-ol on, 3J38
- by paper chromatography - a.a.s., 10B3
- by peak paper chromatography, 4B55
- by polarography, as diethyldithiocarbamate complex, 6B60
- in propane-1,3-diamine medium, 1B36
- by potentiometric titration with lead diethyldithiocarbamate, 7B26
- by sorption - spectrophotometry, anion exchanger for, 1B19
- by spark-source m.s., pre-concentration on aluminium powder in, 3B12
- by spectrophotometry, 1B119
- 3-bromo-2-hydroxy-5-methylacetophenone hydrazone in, 4B45
- reagents for, 5B37
- by spectrophotometry with di-2-pyridyl ketone pyrimidin-2-ylhydrazone, 4B16
- by spectrophotometry with disodium 3-hydroxy-4-(6-methyl-2-pyridylazo)naphthalene-2,7-disulphonate *N*-oxide, 4B150
- by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
- by spectrophotometry with 6-(1,2,4-triazol-3-ylazo)-2,4-xylenol, 5B38
- by spectrophotometry with zincon-loaded anion-exchange membrane, 5B36
- by thermometric monitoring of catalysis of ascorbic acid oxidation, 11B24
- by titration, with quinoline-8-thiol and its methyl derivatives, 4B113
- by titrimetry, 4B42
- indicator for, 4B43
- by voltammetry, effect of nitro-compounds and surfactants on, 7B13
- C. I. Mordant Blue 3 in spectrophotometric, 3B10
- in situ* complex formation in spectrophotometric, 3B31
- dimedone bis(amidinothiohydrazone) in catalytic spectrophotometric, 11B25
- di-2-pyridyl ketone [2-furyl(thiocarbonyl)]hydrazone in spectrophotometric, 3B30
- ferrozine in spectrophotometric, 12B144
- in air, by anodic-stripping voltammetry, 12H16
- by differential pulse anodic-stripping voltammetry, 5H14
- by PIXE, 10H3
- in air-borne particulates, by flame a.a.s., 2H13
- in air polluted by road traffic, 5H15
- in alkali-metal chlorides, by a.a.s., 3B23
- in alloys, 1,5-bis-(2-carboxyphenyl)carbazide in spectrophotometric, 2B17
- by gravimetry, reagent for, 2B15
- in alloys and minerals, *p*-anisaldehyde thiosemicarbazone in spectrophotometric, 9B164
- in alloys and ores, by complexometric titration, 1B20
- in aluminium, by ICP a.e.s., 6B69
- in aluminium alloys, by a.f.s. in oxygen atmosphere, 6B38
- in aluminium-based and copper-based alloys, by γ -activation spectrometry, 4B47
- in aq. soln., by a.a.s. after pre-concentration on ion-exchange resin, 4B36
- by flow-injection analysis, with u.v. and refractive-index detectors in series, 4B28
- by t.l.c., 9B22
- in beef and bovine organs, by voltammetry, 12D37
- in beer, by a.a.s., 8F58
- in beneficiation products of ores, by a.a.s., 9B9
- in biological and environmental materials, by voltammetry, 12D24
- in biological materials, by a.a.s., contamination in, 10D16
- by extraction - h.p.l.c., 12D29
- by XRF, effect of sample-dissolution procedures on, 1D33
- food and alloys, spectrophotometric, 3B29
- in blood, by a.a.s. after extraction with dibenzo-24-crown-8, 10D24
- by porous-layer electrochemistry, 7D21
- liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
- in blood plasma, by a.a.s., with continuous flow, 5D22
- in bone, by ICP a.e.s., 2D10
- in cadmium, by a.a.s., 1B39
- in camel bone, spectrophotometric, 8D19
- in canned fish, by a.a.s., 7F45
- in carbon fibres, by anodic-stripping voltammetry, 8B26
- in cereals and flour, by a.a.s., 5G2
- in Chinese cabbage, by a.a.s., digestion methods for, 10F51
- in coal, by differential pulse polarography, 8B132
- in cobalt salts, 5B240
- in Coca-Cola, by differential pulse anodic-stripping voltammetry, automated device for, 3F25
- in copper - zinc alloys, by emission spectrometry, comparison of glow-discharge and ICP excitation in, 4B46
- in cosmetics and raw materials, diethyldithiocarbamate or dicupral in spectrophotometric, 8C72
- in crude oil, by a.a.s., 8C52
- in cupronickel alloys, by Auger electron spectroscopy, 2B18
- indicator for complexometric titrimetric, 6B42

Copper, detmn. of.—continued

- indicators for EDTA titration in, 9B24
- indicators for titrimetric, 4B38
- indicator system for titrimetric, 10B12
- in distilled water and waste water, thiazole reagents in spectrophotometric, 8B27
- in eggs, by a.a.s., 2F22
- in environmental materials, methods and computer program for, 12H4
- in erythrocytes and plasma of pregnant women, by PIXE, 12D17
- in fly ash, by ICP a.e.s., 12J99
- in foods, by a.a.s., 7F5
- by differential pulse anodic-stripping voltammetry, 10F1
- in fungicide-treated timber, spectrometric, 9C73
- in glass, by a.a.s., ICP a.e.s. and d.c. plasma a.e.s., 12B180
- in glasses and glazes, by fast-atom-bombardment m.s., 10B176
- in green or red peppers, by a.a.s., 12F27
- in high-purity inorganic compounds, kinetic, 6B18
- in human, cow's and powdered milks, by a.a.s., 11F20
- in human hair, by a.a.s., 5D25
- in industrial electrolyte soln., ion-selective electrode in continuous-flow, 6B41
- in industrial wastes, by polarography, 5B12
- in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
- in iron and steel, photometric, 11B140
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in iron - manganese nodules, by a.f.s., 4B19
- in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
- in lithium fluoride, by extraction - spectrophotometry, 11B21
- in low-temp. carbon monoxide-conversion catalyst, complexometric, 7B158
- in lubricating oils, by a.a.s., 9C56
- in magnesium salts and zinc, by differential pulse polarography, 1B33
- in maize oil, by a.a.s., sample preparation for, 2F42
- in metals and alloys, spectrophotometric, 3B33
- in milk powder and biological materials, ashing method for voltammetric, 7F61
- in milk-protein concentrates, reproducibility of, 5F30
- in mineral waters, by differential pulse anodic-stripping voltammetry, 2H34
- in mixtures, by spectrophotometry, 6B20
- in motor oil, by a.a.s., 4C58
- in multivitamin tablets, by anodic-stripping voltammetry, 3E17
- in natural waters, by anodic-stripping voltammetry, review, 5J189
- by differential pulse anodic-stripping voltammetry, 4H55
- in nickel-plating soln., by spectrophotometry, 4B178
- in nickel-production samples, by spectrophotometry, 6B168
- in ores, by polarography, 6B43
- by spectrophotometry, 6B44
- formazan derivative in, 3B28
- in ores and alloys, extraction - spectrophotometric, 6B166
- in organic compounds, by potentiometric titration, 7C7
- in paper and its products, by a.a.s., 10C74
- in pepperbush, by spectrophotometry, 2B11
- in phosphate rock reference material, 5A16
- in pickling-bath soln., with ion-selective electrode, 1J102
- in plants, by a.a.s. and emission spectrography, 5D24
- by hydrochloric acid extraction, 11G1
- in plasma and ocular and cerebrospinal fluids, by a.a.s., 7D20
- in porcine viscera, by catalytic potentiometry, 10D25
- in potable water, by a.a.s., sampling and pre-concentration in, 9H38
- by stripping voltammetry, 5H49
- in potassium polyphosphate fertilizer, by a.c. polarography, 5G19
- in presence of bismuth, extraction - spectrophotometric, calculation for, 10B31
- in presence of carbon and iridium, chemical - absorptiometric, 10B14
- in presence of gallium and indium, reagent for gravimetric, 6B48
- in presence of iron, by spectrophotometry, 4B153
- in presence of lead, by amperometry, 5B17
- in presence of silver, 1,4,8,11-tetrathiacyclotetradecane in extraction - spectrophotometric, 11B26
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in river water, by a.a.s. after extraction and by ICP a.e.s., 8H50
- by h.p.l.c., 7H32
- in roadside dust, by a.a.s., 3H5
- in rocks, by spectrophotometry, 4B37
- in rocks and soils, by a.a.s., 1B151
- in sea- and waste water, by solvent extraction - XRF, 11B13
- in sea-water, by a.a.s., 3H34
- by anodic-stripping voltammetry, 2H37
- by co-pptn. - a.a.s., 11H36
- by extraction - a.a.s. and/or anodic-stripping voltammetry, 5H43
- in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- by cyclic stripping voltammetry, 2H38
- in serum, by a.a.s., 2D18
- inter-laboratory assessment of, 4D30
- by anodic-stripping voltammetry, 10D31

Copper, detmn. of, in serum.—*continued*

- by flow-injection analysis, 8D20
- by flow injection - ICP a.e.s., 10D20
- by ICP a.e.s., 1D17
- by PIXE, 12D45
- by spectrophotometry, 2D16
- in silicate rocks, by a.a.s., 4B108
- in silicates, by energy-dispersive X-ray spectrometry, 11B74
- in silicates and steel, by spectrophotometry or fluorimetry, 4B40
- in silicon, by spectrography, 4B103
- in silver and brass, by amperometry, 4B44
- in silver nitrate, by a.a.s. after sepn. from silver, 9B29
- in soil, by polarography, reagent for, 4B114
- by spectrophotometry, 4G11
- in soil and sewage-sludge-treated soil, by a.a.s., 5G9
- in solid wastes, polarographic, 10H95
- in steel, by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
- in table salt, 8F49
- in tears, by a.a.s., 2D15
- in tellurium, by n.a.a., 1B103
- in toothpaste, spectrophotometric, 12C59
- in urban dust, by a.a.s., optimized extraction procedure for, 4H15
- in urine, by graphite-furnace a.e.s., 2D17
- by XRF after pre-concentration on chelating filter, 4D59
- in uterine tissue, by PIXE, 5D36
- in vegetables, X-ray spectroscopic, 6F59
- in waste water, by stripping voltammetry, 5H89
- by XRF, 7H73
- in water, by a.a.s. after pre-concentration on polyurethan foam, 8H49
- by a.e.s. with toroidal microwave-induced plasma, 11J92
- in water and waste water, decomposition of organic matter in, 12H50
- in waters, indirect spectrophotometric, 5B34
- in zinc and cadmium sulphides, by extraction - spectrophotometry, 9B46
- extraction - spectrographic, 10B45
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodiimide, 7B44
- in zinc sulphate electroplating soln., by h.p.l.c., 4B67
- ion-selective electrode for, 4J164
- 4-methoxy-2-(5-methylisoxazol-2-ylazo)phenol in spectrometric or titrimetric, 10B35
- 2-methylcyclohexane-1,3-dione bis-(4-phenyl-3-thiosemicarbazone) in spectrophotometric, 8B28
- 4-methyl-5-(3-sulphopropylamino)-2-(2-thiazolylazo)benzoic acid in spectrophotometric, 5B35
- 2-methyl-4-(2-thiazolylazo)resorcinol as indicator in titrimetric, 10B32
- nitro-derivatives of 2-benzoylindan-1,3-dione in spectrophotometric, 7B19
- 2-(α -phenacylbenzylidenamino)ethanesulphonic acid in spectrophotometric, 10B34
- 1,10-phenanthroline and cation in spectrophotometric, 5B15
- pseudopurpurin in spectrophotometric, 3B34
- reagent for fluorimetric, 6B45
- reagent for gravimetric, 4B39
- reagents for spectrophotometric, 8A5
- salicylohydroxamic acid in extraction - a.a.s., 3B27
- segmentation in ring-oven fluorimetric, 9J105
- simultaneously with iron^{III}, by spectrophotometry, 7B25
- simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
- sodium dibutylselenocarbamate in spectrophotometric, 12B16
- sodium 1,2-naphthaquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
- spectrophotometric, 9B27
- substituted thiosemicarbazides in spectrophotometric, 12B38
- sulphonated azo-dyes in spectrophotometric, 2B6
- thermometric, by catalysis of oxidation of di-2-pyridyl ketone hydrazone, 12B37
- 3-o-toluidinocinnamoyl-o-toluidine in gravimetric, 10B29
- twin-probe slit apparatus in X-ray, 1B6
- with chalcocite electrode, effect of complexans on, 12J156
- with ion-selective electrode based on pptd. copper^{II} sulphide, 3J105
- with ion-selective electrode based on vanadium oxide bronzes, 3J103
- detmn. of bivalent, nikethamide as reagent for, 5E39
- detmn. of bound, in tea and coffee, by h.p.l.c. with post-column derivatization, 6F70
- detmn. of chelates of, by t.l.c. with photoacoustic detection, 4B168
- detmn. of complexing agents for, in natural water, by amperometric titration, 3H53
- detmn. of gold in, cyanide-selective electrode in potentiometric, 12B45
- detmn. of oxygen in, by g.c., 2B20
- detmn. of silver in, by spectrophotometry, 2B21
- detmn. of silver in products containing, by a.a.s., 4B50
- detmn. of surface oxygen in, by thermal methods, 12B40
- detmn. of tellurium in, by flame a.a.s., 4B132
- papaverine in spectrophotometric, 11B108
- detmn. of trace, by catalysis - fluorimetry, 10B30

Copper, detmn. of trace.—*continued*

- by inhibition of catalysis by xanthine oxidase, 11B7
- extraction - spectrophotometric, 9B21
- in food and biological reference materials, by n.a.a., 9F4
- in high-purity indium, polarographic, 9B65
- in liquid samples, pre-concentration method for, 9B8
- in liver, by a.a.s., 9D20
- in serum and liver, by a.a.s., 9D19
- in water, by a.a.s., 6B25
- differentiation of compounds of, X-ray-excited Auger intensity ratios in, 6B40
- extraction of, alkylated monohydric phenols in, 8B29
- alkylquinolin-8-ols in, 8B8
- as ternary perchlorate - benzil mono-(2-pyridylhydrazone) complex, 7B28
- 2,2'-biquinolyl and dyes in, 2B13
- from aq. soln., with cyclohexanecarboxylic acid, 5B225
- from river water, by flotation, 4H52
- from sediment and soil, effect of extractant pH on, 12H48
- from water, by adsorption on iminodiacetic acid - cellulose, 2H31
- by collection on zinc, 6H52
- tall oil and pyridine in, 12B25
- unsaturated macrocyclic tetra-amines and carboxylic acids in, 4B163
- with 2-hydroxy-5-(1,1,3,3-tetramethylbutyl)benzaldoxime, 2B16
- with 1,4,8,11-tetrathiacyclotetradecane, 1B1
- extraction of gold from, 8B35
- identn. of, in alloys, electrochemical, 12B17
- ion-selective electrode for, 9J130
- sepn. of, by cation-exchange chromatography, 4B180
- by chromatography, reagents for, 5B22
- by ion flotation, 4B17
- from bivalent metal ions, by ion exchange, 7J48
- from cadmium or nickel, by differential complexation, 3B13
- from cobalt, nickel and zinc, by cation exchange, 6B49
- from iron, in minerals, 5B226
- from nickel, by ion exchange on stannic arsenoantimonate, 9B139
- from other metals, by liquid chromatography with hydroxamic acids as stationary phases, 5J26
- polystyrene-based chelating resin for, 3B19
- sepn. of β -diketone complexes of, by t.l.c., 5B14
- sepn. of radiotracers of, by h.p.l.c., 10B19
- sorption of, on supported complex-forming agents, 5B40
- speciation of, in water, by Donnan dialysis, 12H52
- surface density measurement of thin films of, by XRF, 4J93
- Copper alloys**, analysis of, by Auger spectroscopy, surface preparation for, 5J125
- by cathodic sputtering atomization a.a.s., 7B8
- analysis of gold-containing, by Auger electron spectroscopy, 3B38
- analysis of reference, by laser-source m.s., 11J114
- analysis of surface of, by low-wattage glow-discharge emission spectrometry, 12B44
- analysis of surface of nickel-containing, by XRF, 2J68
- detmn. of arsenic and phosphorus in nickel-containing, by electrothermal a.a.s., 2B59
- detmn. of boron in, by spectrophotometry, 1B21
- detmn. of copper, zinc, nickel, tin and lead in, by γ -activation spectrometry, 4B47
- detmn. of copper and nickel in, by Auger electron spectroscopy, 2B18
- detmn. of copper and zinc in, by emission spectrometry, 4B46
- detmn. of gold in gold-containing, coulometric, 3B39
- detmn. of iron in, spectrophotometric, 5B41, 11B27
- detmn. of lead, iron and zinc in, by a.a.s., 4B48
- detmn. of nickel and copper in, extraction - spectrophotometric, 6B166
- detmn. of sulphur in, by m.s. as arsenic monosulphide ion, 12B119
- detmn. of tin in, quercetin in spectrophotometric, 7B30
- detmn. of traces of selenium and tellurium in, by a.a.s., 10B36
- Copper chromite**, analysis of, by ion-beam techniques, 9B185
- Copper compounds**, organic, detmn. of, in waters, by h.p.l.c. - a.a.s., 6H92
- Copper(I)**, detmn. of, in presence of copper^{II}, ion-selective electrode for, 9J127
- Copper(II)**, detmn. of, by complexometric titrimetry, 3B32
- Copper indium disulphide**, detmn. of stoichiometry of and trace elements in, 11B167
- Copper mattes**, analysis of, by XRF, mathematical models for, 2B19
- detmn. of silver in nickel-containing, by extraction - a.a.s., 1B137
- Copper ores**, detmn. of gold and silver in concentrates of, by flame a.a.s., 10B38
- detmn. of gold in concentrates of, by a.a.s., 5B48
- detmn. of mercury in, spectrophotometric, 5B70
- detmn. of silver in, by spectrophotometry, 8B31
- detmn. of silver in wastes and concentrates of, by anodic-stripping voltammetry, 5B46
- extraction of gold from concentrates of, 8B35
- Copper oxides**, detection of copper^I in, by XRF, 9B26
- Copper resinates**, detmn. of, in anti-fouling enamels, 1B163
- Copper slags**, analysis of, by XRF, mathematical models for, 2B19
- Copper sulphate**, detmn. of zinc in, titrimetric, after co-pptn. with hydrated manganese dioxide, 4B49
- Copper sulphide**, analysis of mixed, voltammetric, 9B25

- Coproporphyrins**, detmn. of, in urine, 4D273
 sepn. of, by h.p.l.c., 5D213
 in urine, by h.p.l.c., 4D268
 sepn. of isomers of, by reversed-phase h.p.l.c., 7D209
- Corrosion inhibitors**, detmn. of EDTA in, titrimetric, 10B82
- Corticosteroids**, detmn. of, in adrenal tissue, by h.p.l.c., 3D120
 in equine urine, by derivatization - g.c. - m.s., 10D77
 in urine, by h.p.l.c. with fluorimetric detection, 8D141
 sepn. of, by h.p.l.c., 8D134, 8D140
 on-line extraction, evaporation and injection system for, 9D54
 by h.p.l.c. on phenyl-derivatized silica gel, 7D140
- , **17-hydroxy-**, detmn. of, in urine, automated, 4D194
 by spectrophotometry, interference by cefoxitin in, 1D117
- Corticosterone**, detmn. of, in blood plasma, by h.p.l.c., 4D200
 in plasma, by competitive protein binding, 4D195
 in serum, equilibrium sepn. in protein-binding, 9D143
- Corticotrophin**, detmn. of, in plasma, by r.i.a., 9D205
- Cortinarin A**, detmn. of, in mushrooms, by h.p.l.c., 4D237
 in *Cortinarius* mushrooms, by h.p.l.c., 9D191
- Cortinarin B**, detmn. of, in *Cortinarius* mushrooms, by h.p.l.c., 9D191
- Cortinarin C**, detmn. of, in mushrooms, by h.p.l.c., 4D237
 in *Cortinarius* mushrooms, by h.p.l.c., 9D191
- Cortinarius**, detmn. of toxins of, by h.p.l.c., 9D191
- Corundum**, detmn. of gallium in synthetic, 9B63
- Corynetoxin**, sepn. of, from other tunicaminyuracil-based antibiotics, by h.p.l.c., 4E28
- Cosmetics**, analysis of, by near-i.r. reflectance spectrometry, 5J116
 European recommended methods for, 7C83
 detection of 5-bromo-5-nitro-1,3-dioxan in, by t.l.c., 2C56
 detmn. of BHA in, by h.p.l.c., 4C74
 detmn. of copper in, spectrophotometric, 8C72
 detmn. of coumarin and 6-methylcoumarin in, by h.p.l.c., 3C61
 detmn. of dihydroxyacetone in emulsions for, by g.c. and h.p.l.c., 5C90
 detmn. of 1,4-dioxan in, by g.c., 8C73
 detmn. of drugs and antioxidants in, by h.p.l.c., 11J19
 detmn. of dyes in, by h.p.l.c. - spectrophotometry, 10C67
 detmn. of 2,2'-iminonitrosodiethanol in, by chemiluminescence, 4C75
 detmn. of lead in, by a.c. polarography, 2C58
 detmn. of quaternium-15 in, by h.p.l.c. - fluorimetry, 10C66
 detmn. of saccharin in, by t.l.c., 5C93
 identn. of dyes in, by t.l.c., 7C82
 identn. of smudges of, trans-esterification and g.c. - m.s. in forensic, 9C71
- Cotinine**, detmn. of, in extracts of tobacco leaf, by h.p.l.c., 12D159
- Cotton**, assay of 1,4- α -glucan branching enzyme in leaves of, by spectrophotometry, interference in, 4D307
 detection of honeydew in, glucose-test rod in enzymic, 6C51
 detection of textile finishes on, by XRF spectrometry, 4C85
 detmn. of cyclopropanoic acids in seeds of, micro-method for, 4G5
 detmn. of stability of hydroxymethylamide finishes on, by h.p.l.c., 12C63
 prep. of "thiol", for trace-element analysis, 3J4
- Cottonseed**, detmn. of gossypol in, spectrophotometric, 9G1
- Cottonseed meal**, detmn. of aflatoxins in, evaluation of standard methods for, 10F7
 detmn. of gossypol in, spectrophotometric, 9G1
- Cottonseed oil**, detmn. of trace elements in, by a.a.s., 8F66
- Coulometry**, automated, controlled-potential system for, 1J120
 constant-current, generation of hydrogen ions for non-aqueous, 3A9
 thermometric end-point detection in, 5E26
 controlled-potential, calculation of error in, 9J140
 first-order linearization in, 7J139
 controlled-potential instrument for, 2J124
 digital controlled-potential analyser for, 1J121
 dynamic, in gas analysis, 1J8
 instrument for, 7J140
 precise titration in, review, 2J123
- , **potentiometric stripping**, detmn. of trace metals by, 9J139
- Coumaphos**, detmn. of, and its oxygen analogue, in eggs and milk, by h.p.l.c. and g.c. - m.s., 7F48
 identn. of, and its oxygen analogue, in eggs and milk, by g.c. - m.s. and h.p.l.c. - m.s., 7F49
- o-Coumaric acid**, sepn. of *cis*- and *trans*-isomers of, by h.p.l.c., 8C34
- p-Coumaric acid**, detmn. of, in beer and brewing materials, by extraction - h.p.l.c., 12F34
 in rapeseed flour, by g.l.c., 9G10
 sepn. of, by h.p.l.c., 1G2
 sepn. of *cis*- and *trans*-isomers of, by h.p.l.c., 8C34
- Coumarin**, detmn. of, in cosmetics, by h.p.l.c., 3C61
 —, **5,7-dimethoxy-**, sepn. of, from bergamot oil, by t.l.c., 6C48
 —, **6-methyl-**, detmn. of, in cosmetics, by h.p.l.c., 3C61
- Coumarin derivatives**, detmn. of, in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
 in food, review, 8F1
 detmn. of total, in *Angelica dahurica* roots, by polarography, 8E24
 sepn. of, in plants, by h.p.l.c., 3D90
- Coumatetralyl**, detmn. of, in animal tissue, by h.p.l.c., 5D113
 by ion-pair h.p.l.c., 5D114
- Coumestrol**, detmn. of, in dietary lucerne tablets, by h.p.l.c., 9E57
- Cow pea**, detmn. of methamidophos on, spectrophotometric, 10G23
- Crab**, detmn. of ammonia and urea in, enzymic - spectrophotometric, 9F28
 extraction of light filth from, brine-saturation technique for, 7F47
- Crataegus**, detmn. of flavonoids of, by h.p.l.c. and t.l.c., 10E15
- C-reactive protein**, detmn. of, in serum and cerebrospinal fluid, by particle-counting immunoassay, 1D168
- Cream**, detmn. of carboxylic acids and 2-oxoacids in sour, by ion-exclusion chromatography, 6C12
 detmn. of free fat in, by extraction and centrifugation, 6F53
 detmn. of lactate in, enzymic, 1F15
- Creatine**, detmn. of, in heart, by h.p.l.c., 2D217
 in plasma, urine and muscle, by cation-exchange chromatography, 9D160
 in soup, centrifugal analyser in, 4F8
 in urine, enzymic, 9D161
- , **phospho-**, detmn. of, in heart, by h.p.l.c., 2D217
- Creatine kinase**, assay of, in human and animal plasma, activation by *N*-acetylcysteine in, 1D209
 in plasma or serum, threshold-value test for, 9D256
 in porcine blood, 5D238
 in serum, by bioluminescence, 5D239
 luciferase on filter-paper in, 5D242
 reagent strips and reflectance spectrometry in, 12D229
 in serum and tissues, fluorimetric, 11D241
 standards for, 5D237
 assay of isoenzymes of, by chromatography - fluorimetry, 9D255
 by spectrophotometry, 1D203
 in presence of macro-creatine kinase, 9D257
 in serum, by bioluminescence, 8D242
 with Gelman kit, suppression of adenylate kinase activity in, 7D241
 assay of MB isoenzyme of, 5D236, 7D242
 by Du Pont method, 9D254
 in biological fluids, kit for, 1D207
 in plasma, immuno-inhibition kit for, 1D205
 in serum, by immuno-inhibition, interference by CK-BB and atypical CK in, 8D241
 by spectrofluorimetry, 1D206
 with the Du Pont *aca*, interference in, 9D252
 sepn. of isoenzymes of, in serum, by ion-exchange chromatography, 4D312
- Creatine phosphate**, detmn. of, in brain, by h.p.l.c., 11D162
 in myocardial tissues, by h.p.l.c., 8D218
- Creatinine**, detmn. of, by spectrophotometry, 1D128
 in blood, by solid-phase reflectance spectrometry, 5D214
 in blood and serum, by h.p.l.c., 12D147
 in blood plasma, enzymic, 1D137
 in cerebrospinal fluid, by h.p.l.c., 2D222
 in meat-extract-containing foods, by h.p.l.c., 7F42
 in plasma, discrete analyser in kinetic, 10D159
 in plasma and blood, differential pH technique in, 12D148
 in plasma or urine, by h.p.l.c., 6D208
 in serum, by alkaline picrate method, effect of glutaraldehyde on, 1D129
 by h.p.l.c. and picrate method, 1D130
 by Jaffe method, interference by phenacemide in, 12D156
 effect of cefoxitin on, 4D211
 enzymic, 5D171, 6D209
 enzymic - colorimetric, 2D170
 in presence of cephem antibiotics, 9D162
 with enzyme electrode, 3J109
 in serum and urine, amperometric sensor for, 2J114
 interference by cefoxitin and ceforanide in, 6D207
 spectrophotometric, 3D132
 in soup, centrifugal analyser in, 4F8
 in urine, after collection on filter-paper, 6D22
 by h.p.l.c., 9D248
 pre-treatment procedure for, 10D14
 sample stability in, 6D29
 sepn. of, by ion-pair h.p.l.c., 12D211
 storage of urinary, on filter-paper, 6D21
- Cresol**, detmn. of *m*-cresol in, by g.c., 5E49
- m-Cresol**, detmn. of, in cresol, by g.c., 5E49
 in natural waters, by g.l.c., pre-concentration for, 5H81
- o-Cresol**, detmn. of, in natural waters, by g.l.c., pre-concentration for, 5H81
- p-Cresol**, detmn. of, in natural waters, by g.l.c., pre-concentration for, 5H81
 sepn. of, by t.l.c., mobile phases for, 5C45
- , **2,6-di-t-butyl-**, detmn. of, in butadiene - styrene copolymers, by pyrolysis g.c. - m.s., 4C89
 in oils and fats, by g.l.c., 8F64
 in packaging materials, by t.l.c., 2F11
 in vegetable oils and margarine, by g.l.c., 8F67
- , **2,6-di-t-butyl- α -hydroxy-**, detmn. of, in vegetable oils and margarine, by g.l.c., 8F67
- Crops**, detmn. of arylamide pesticides in, 11H71
 detmn. of bromide as pesticide residue in, by ion-selective electrode, 11G39
 detmn. of chromium in, by a.a.s., 2G1
 detmn. of glucosinolates in, review, 2G6

Crops—continued

- detmn. of pyrethroid residues in, by g.l.c., 5G41
remote sensing of condition and amount of, by emission or reflection of visible and i.r. radiation, 4G1
remote sensing of condition of, by reflectance measurement, instrument for, 4G2
ratio of i.r. to red radiation in, 4G3
- Cross-linking agents**, detmn. of urethan, in rubber, by g.s.c. and by h.p.l.c., 4C99
- Crotonic acid**, detmn. of, in sorbic acid, by g.l.c., 4C20
- Croton oil**, detmn. of phorbol esters and other diterpene esters in, by h.p.l.c., 8E26
- Crotonolidenacetone**, detmn. of, in sorbic acid, by g.l.c., 4C20
- Crown ethers**, detection of, after t.l.c., with Dragendorff reagent, 5C58
extraction of, salt effects on, 11C30
m.s. of alkali-metal complexes of, 5B9
- Crude oil**, sepn. of asphaltenes in, by liquid chromatography, 7C54
- Crystallization**, pre-concentration by, efficiency of, 9A39
- Crystal violet**, detection of, on filters, by surface-enhanced Raman scattering spectrometry, 12C60
- Cucumbers**, detmn. of organic acids in, by ion chromatography, 6F65
detmn. of organophosphorus insecticides in, automated, 5F39
detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14
detmn. of pyrazophos in, spectrophotometric, 12G10
- Cucurbitaceae spp.**, detmn. of fructose and glucose in, by h.p.l.c., 8F48
- Cucurbitacin**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 1E13
- Cumene**, sepn. of, by g.c. on sodium and copper sulphates, 3C26
- Cumene hydroperoxide**, analysis of, by g.l.c., avoidance of decomposition in, 11C16
detmn. of iron in, by spectrophotometry, 5C43
- Cumenesulphonic acid sodium salt**, detmn. of, by h.p.l.c., 3C55
- Curcuma dyes**, detmn. of, in food, by h.p.l.c., 6F20
- Curcumin**, detmn. of, in turmeric, by h.p.l.c., 10F53
review, 5F42
- Curing agents**, detmn. of trimellitic anhydride in, for thermosetting resins, by h.p.l.c., 7C99
- Curium**, detmn. of, in biological materials, water, soil or sediment, 1H28
in nuclear-reactor fuel, 4B92
in spent nuclear-reactor fuel, by isotope-dilution α - and mass spectrometry, 5B119
in urine, isolation method for, 7D28
extraction of, by 2-thenoyltrifluoroacetone - linear polyether mixture, 1B62
- Custard powder**, detmn. of emulsifiers in, by spectrophotometry, 5F8
- Cyanide**, detmn. of, as pentafluorobenzyl derivatives, by g.c., 6B24
by argentimetric titration, error in, 5B132
by ion chromatography, 10B2
by titrimetry with *N*-bromosuccinimide, 5B131
copper - Cadion 2B - Triton X-100 complex in spectrophotometric, 8H98
copper^{II} - di-2-pyridyl ketone 2-pyridylhydrazine in indirect spectrophotometric or a.s., 11B68
in blood, by g.l.c., 5D26
in cassava, enzymic, 11F28
in environmental materials, 9H3
in food, colorimetric, 7F8
in leachates from ores, flow-injection, 10B79
in metal complexes, by titrimetry with *NN*-dibromobenzenesulphonamide, 4B100
in presence of gold and uranium, distillation - spectrophotometric, 7B38
in presence of thiocyanate, kinetic spectrophotometric, 6B93
in waste water, by flow-injection analysis, 12H96
by pentafluorobenzoylation - g.l.c., 8H97
by spectrophotometry, 4H80
in presence of thiocyanate, by spectrophotometry or potentiometry, 4H79
in waste water and sea-water, by indirect spectrophotometry, 7B72
in water, by a.s., 1H29
by fluorimetry, 3H45
by indirect a.s., 8H59
in wine, by spectrophotometry, 7F89
ion-selective electrode for, 6J177
kinetic, 7B71
pyridine - pyrazolone and - barbituric acid reagents in spectrophotometric, 8B63
detmn. of trace, in dust, by ion chromatography, 5H19
- Cyanogen chloride**, detmn. of, in effluents, by spectrophotometry, 8H99
- Cyclamate**, detmn. of, by h.p.l.c. - indirect spectrophotometry, 7F23
in foods, non-aqueous titrimetric, 10F21
- Cyclic AMP phosphodiesterase**, assay of, spectrophotometric, 11D254
- 2':3'-Cyclic-nucleotide 3'-phosphodiesterase**, assay of, in rat brain, by t.l.c. - fluorimetry, 10D259
- 3':5'-Cyclic-nucleotide phosphodiesterase**, assay of, by h.p.l.c., 7D249
- Cyclic-nucleotide phosphodiesterases**, sepn. of, in rat heart, by isoelectric focusing, specific activity stain for, 4D316
- Cyclizine**, detmn. of, in blood and urine, by g.l.c., 11D98
- Cycloalkanes**, detmn. of, in gasoline, by g.c., 5C68
- Cyclobarbitone calcium**, detmn. of, by bromimetry, 4E37
- Cyclobutonium**, detmn. of, eosin in spectrophotometric, 8E90
- Cyclohexane**, sepn. of, from other hydrocarbons, by g.s.c., column packing for, 4J69
- , **1,2-epoxy-**, detmn. of, in oxidation products of cyclohexane, by colorimetry and g.l.c., 10C31
- Cyclohexanol**, detmn. of, in products of cyclohexylamine production, by g.c., 9C30
- , **2,3-epoxy-**, detmn. of, in oxidation products of cyclohexane, by colorimetry and g.l.c., 10C31
- , **4-phenyl-4-piperidino-**, detmn. of, in urine and blood plasma, by g.l.c., 4D97
- , **4,4'-(propane-2,2-diyl)bis-**, sepn. of isomers of, by h.p.l.c., 8C31
- Cyclohexanone**, detmn. of inclusions of, in poly(methyl methacrylate) films, carbon-14 in radiometric, 10C77
- Cyclohexene**, **polychloro-**, sepn. of isomers of, by g.l.c., 11C15
- Cyclohexylamine**, detmn. of, in products of cyclohexylamine production, by g.c., 9C30
in water, by ion chromatography, 8H82
- , ***NN*-dimethyl-**, detmn. of, in air, by g.c. - m.s., 2H26
- , **phenyl-**, detmn. of, in products of cyclohexylamine production, by g.c., 9C30
- Cyclohexylamine derivatives**, **aryl**, identn. of, by chromatography, 4E41
- Cyclohexyldenecyclohexylamine**, detmn. of, in products of cyclohexylamine production, by g.c., 9C30
- Cyclopentadecanone**, detmn. of, in odour glands of civet cats, by g.l.c., 9D112
- Cyclopentane-1,2-dione**, **3-methyl-, bis(thiosemicarbazone)**, detmn. of, by potentiometric titration with copper^{II}, 5A8
- Cyclopent-2-en-1-one**, **2-hydroxy-3-methyl-, thiosemicarbazone**, detmn. of, by potentiometric titration with copper^{II}, 5A8
- Cyclopenthiadiazide**, detmn. of, in tablets, by continuous-flow analysis, 1J17
- Cyclopentolate**, detmn. of, by g.l.c., 11E35
- Cyclophosphamide**, detmn. of, in plasma, by g.l.c., 6D121
- Cyclopiazonic acid**, detmn. of, in cereals, colorimetric, 10F10
in mouldy food, by t.l.c., 5F6
in vegetables, by t.l.c., 5F37
- Cyclopropane-1-carboxylic acid**, **1-amino-**, detmn. of, in apples, by extraction - g.c., 6F57
- Cyclopropanoic acids**, detmn. of, in seeds, micro-method for, 4G5
- Cyclosophoraoses**, sepn. of, by h.p.l.c., 3D127
- Cyclosporin A**, detmn. of, in plasma, temp.-dependence of, 4D133
in plasma and blood, by h.p.l.c., 9D96
- Cyhexatin**, detmn. of, in air, water, soil or plants, by t.l.c., 6H4
- Cypermethrin**, detmn. of, in air, by g.c. and t.l.c., 10H38
in fruit and vegetables, by g.l.c., 2F32
in tomatoes and leaves, by t.l.c., 2G24
review, 11G40
- Cyproheptadine**, detmn. of, in blood plasma or urine, by g.l.c., 4D122
- Cyproheptadine hydrochloride**, detmn. of, in tablets, by h.p.l.c., 5E46
- Cystamine**, detmn. of, in animal tissue, by h.p.l.c., 9D170
- Cystamine dihydrochloride**, detmn. of, by paper chromatography, 8E89
- Cystamine dihydrochloride SS-dioxide**, detmn. of, by paper chromatography, 8E89
- Cystathionine**, detmn. of, in tissues, by isotachopheresis, 3D163
- Cystamine**, detection of, in blood and plasma, by derivatization - h.p.l.c., 7D176
detmn. of, by h.p.l.c., reagent for post-column reaction in, 11D116
in animal tissue, by h.p.l.c., 9D170
- Cysteine**, detection of, in blood and plasma, by derivatization - h.p.l.c., 7D176
detmn. of, by a.s., 3D149
by anodic-stripping voltammetry, 1D141
by h.p.l.c., reagent for post-column reaction in, 11D116
by h.p.l.c. with polarographic detection, 9D188
by i.r. spectrophotometry, 5F15
by voltammetry, 8D172
by voltammetry at gold, graphite or platinum electrodes, 9D177
graphite electrode in kinetic - catalytic, 8B94
in amino-acid mixtures, by colorimetry, 1D142
in beer, by h.p.l.c. - fluorimetry, 7F85
in plasma, 4-dimethylaminocinnamaldehyde in colorimetric, 6D220
sepn. of, by liquid chromatography, 4D227
stripping voltammetry of, at mercury electrode, 3D150
- L-Cysteine**, **S-(1,2-dicarboxyethyl)-**, detmn. of, in eye lens, by h.p.l.c., 12D174
- Cysteine**, **S-sulpho-**, detmn. of, in urine, by h.p.l.c., 4D226
- Cysteine sulphoxide**, **S-alkyl-**, detmn. of, in onion, by t.l.c. and g.c. - m.s., 5F38
- Cystine**, detmn. of, by h.p.l.c. with polarographic detection, 9D188
by voltammetry, 8D172
by voltammetry at gold, graphite or platinum electrodes, 9D177
sepn. of, by liquid chromatography, 4D227
- Cytarabine**, detmn. of, in serum, by h.p.l.c., 4D130
- Cytidine**, detmn. of, in seaweed, by ion-exchange chromatography, 6D277
- , **deoxy-**, sepn. of, by h.p.l.c., 2D221
- , **2-deoxy-**, detmn. of, by spectrophotometry, diphenylamine in, 5D217
- , **deoxy-, 5'-monophosphate**, sepn. of, by h.p.l.c., 2D221
- , **5-fluoro-, 2',3'-cyclic monophosphate**, sepn. of, from 5-fluorocytidine 3',5'-cyclic monophosphate, by h.p.l.c., 10D235

- Cytidine, 5-fluoro**,—*continued*
 —, 3',5'-cyclic monophosphate, sepn. of, from 5-fluorocytidine
 2',3'-cyclic monophosphate, by h.p.l.c., 10D235
- Cytochrome c**, sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- Cytochrome P-420**, detection of, continuous-flow apparatus for h.p.l.c., 3D254
- Cytochrome P-450**, assay of, ethyl fluoresceins in, 3D253
 detection of, continuous-flow apparatus for h.p.l.c., 3D254
 detmn. of, in liver, electrophoretic, 12D181
- Cytokinins**, detmn. of, in plant material, by g.l.c., 5G26
- Cytosine**, detmn. of, by ion-exchange chromatography, 6D277
 identn. of, by derivative u.v. spectrophotometry, 6D282
- , **5-methyl**-, detmn. of, in DNA, by h.p.l.c., 7D217
 by stable-isotope-dilution g.c. - m.s., 3D235
- D**
- 2,4-D**, detmn. of, by h.p.l.c., 3G16
 in formulations, by h.p.l.c., 4G32
 in plants, water and soil, by t.l.c., 8G13
 in soil, by g.l.c. with ion-mobility detector, 6G28
- , **methyl ester**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Daidzein**, detmn. of, in *Pueraria Radix* and *Pueraria* spp., by h.p.l.c., 12E18
- Daidzin**, detmn. of, in *Pueraria Radix* and *Pueraria* spp., by h.p.l.c., 12E18
- Dairy products**, analysis of, 10A2B
 by h.p.l.c., review, 9F30
 reference methods for ultra-trace, 7F51
 analysis of anhyd. milk fat in, 6F41
 analysis of lipids in, 7F50
 detmn. of aflatoxin M₁ in, by h.p.l.c., 2F23
 by t.l.c., 9F29
 detmn. of alcohol content of, by densitometry, 4F74
 detmn. of lactate in, enzymic, 1F15
 detmn. of mycotoxins in, by h.p.l.c., review, 10F12
 detmn. of peptides liberated in tryptic hydrolysis of, by h.p.l.c., 11F21
 detmn. of l-butylquinol in, by g.l.c., 8F37
 detmn. of thickeners in, by g.l.c., 8F11
- Dalapon**, detmn. of, in herbicidal products, by liquid chromatography, 7G28
- Dammaranes**, detmn. of alcoholic, from *Betula* leaves, by g.l.c., 9D110
- Dastib-845**, extraction of, from polyethylene, 1F5
- Data processing**, automated mass spectra retrieval system for, 12J117
 by cluster analysis, 7A26B
 computerized, 11J10
 computer program for spectrographic, 2A14
 estimation of signal-to-noise ratio in computerized, 11A23
 file search system in, for i.r. spectrophotometry, 2A16
 for carbon-13 n.m.r., computer-assisted, review, 4A27
 in a.s.s., system for, 2A18
 in clinical analysis, by microcomputer, 10J13
 in detmn. of amino-acids, computerized, 2D173
 in detmn. of lipids, by t.l.c. - densitometry, computer program for, 12D130
 in enzyme immunoassay, computer program for, 10D4
 in g.c., statistical methods for, review, 7A14
 in g.c. - magnetic sector m.s., 8J67
 in h.p.l.c., computerized, 12J46
 three-dimensional presentation in, 9J32
 in i.r. absorption spectrophotometry, spectrum-retrieval system for, 3A17
 in i.r. spectrometry, by fast Fourier transformation, 2A19
 colour graphics/display for, 12J111
 in m.s., computer programs for, 7A20
 zoom transform for accurate, 6A19
 in m.s. of polymers, library for, 9C83
 in potentiometric titrimetry, review, 3A19
 weighting in, 3A20
 in spectrography, non-programmable calculator for, 7A17
 programmable calculator for, 10A20
 in spectrophotometry, 2A17
 systems for, 3A16
 in thermal analysis, 9J145
 in u.v. - visible spectrophotometry, microprocessor-controlled instrument for, 12J87
 non-linear mapping, simplified method for, 9A19
- Daucorubicin**, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
 and its metabolites, in plasma, by h.p.l.c., 12D71
 by h.p.l.c., 12E29
- , **1-demethoxy**-, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
- D&C Green No. 5**, detmn. of isomers of, by h.p.l.c., 10E44
- pp'-DDE**, detmn. of, by g.l.c., 2G27
 in cod-liver oil, herring-flesh oil and fish oils, by g.l.c., 2G25
 in eggs, by g.c., 4D142
 in human milk, by g.c., 1D78

- pp'-DDE**, detmn. of,—*continued*
 in human milk and serum and infant feed, by extraction - g.c., 10D113
 in milk, by g.l.c., 4F39
- op'-DDT**, detmn. of, by g.l.c., 2G27
- pp'-DDT**, detmn. of, and its metabolites, in cod-liver oil, herring-flesh oil and fish oils, by g.l.c., 2G25
 in fish oils, by g.l.c., 2F21
 by g.l.c., 2G27
 by t.l.c., 2G17
 in human milk, by g.c., 1D78
 in tobacco smoke, by t.l.c., 5D112
- 3-Deazauridine**, detmn. of, in plasma, by h.p.l.c., 6D122
- Debrisoquine 4-hydroxylase**, assay of, radiometric, 9D271
- Decamethoxin**, detmn. of, eosin in spectrophotometric, 11E45
- Decarboxylases**, assay of, by radiochemical t.l.c., 5D258
- Dec-2-enoic acid, 10-hydroxy**-, detmn. of, in royal jelly and its preparations, by g.l.c., 4E21
- Decylamine**, detmn. of, in bacterial cultures, by g.c., 7D154
- Dehydroascorbic acid**, detmn. of, in fresh fruit and vegetables, by liquid chromatography, micro-fluorimetry or dye titration, 7F67
- Dehydrogenases**, assay of NADP-requiring, fluorescent reagent for, 5D232
- Deltamethrin**, detmn. of, in air, by g.c. and t.l.c., 10H38
 in fruit and vegetables, by g.l.c., 2F32
 in tomatoes and leaves, by t.l.c., 2G24
 review, 11G40
- Demecolcine**, detmn. of, in tablets and ointments, spectrophotometric, 3E45
- Demethylclomipramine**, detmn. of, in plasma, by h.p.l.c., 1D53
- Demeton-O-methyl**, sepn. of, from synthesis mixture, by g.l.c., 6G31
- Demeton-S-methyl**, detmn. of, in waters, by g.c., pre-concentration technique for, 4H78
 sepn. of, from synthesis mixture, by g.l.c., 6G31
- Demoxepam**, detmn. of, in formulations, by difference spectrophotometry, 9E36
- Densitometry**, fluorimetric scanning, two-point calibration in, 3J48
 instruments for, 10J50, 10J51
 microcomputer-based video-, in t.l.c., 3J49
- Dental plaque**, detmn. of lactic acid isomers in, enzymic, 9D122
- Deoxyadenosine kinase**, assay of, in biological tissues, 2D230
- Deoxycholic acid**, detmn. of, in bile, enzymic fluorimetric, 6D196
 in drugs, cholate membrane electrode for, 6E21
- Deoxycorticosterone, 19-nor**-, detmn. of, in urine, by r.i.a., 12D144
- Deoxycytidine kinase**, assay of, in biological tissues, 2D230
- Deoxyribonuclease I**, assay of, after isoelectric focusing on polyacrylamide gels, 11D256
- Dequalinium chloride**, detmn. of, halo-derivatives of fluorescein in spectrophotometric, 10E37
- Desipramine**, detmn. of, by rotating-disc-electrode voltammetry, 7E24
 in blood and brain, by h.p.l.c., 5D67
 in plasma, by g.l.c., 9D70
 by h.p.l.c., 2D81, 7D69, 10D93
 in plasma and urine, by t.l.c., 6D99
 in serum, by h.p.l.c., 4D107
 in serum or plasma, by g.l.c., 6D100
- Desmedipham**, detmn. of, by g.c., after reaction with trimethylanilinium hydroxide, 1G12
- Desmetryne**, detmn. of, in water, by g.l.c. after sorption on porous polymer, 5H83
- Desoxinijirimycin**, m.s. of derivatives of, 11D227
- Desulfovibrio spp.**, detmn. of sulphide generated by, selective electrode in, 6B122
- Deuterium**, concn. depth profiles of, computer programs for, 5A29
 detmn. of, by g.c., 10B25
 by n.m.r., cobalt-59 in, 2B8
 in deuterated water, by distillation - m.s., 12B33
 in laser fusion targets, by Raman spectrometry, 5B31
 in soln., electrochemical, 5J168
 membrane polarographic detector for, 7B22
- Deuterium oxide**, detmn. of water in, i.r. spectrophotometric, 10B26
- Dexamethasone**, detmn. of, by enzyme immunoassay, 7D55
 in equine urine, by derivatization - g.c. - m.s., 10D77
 in pharmaceutical preparations, by h.p.l.c., 12E35
 in plasma, by h.p.l.c. and g.c. - m.s., 11D62
- Dexamisole**, detmn. of enantiomers of, by n.m.r. spectrometry, 6E54
- Dexpanthenol**, detmn. of, in antiseborrhoeic shampoo, 4E61
 in pharmaceutical soln., by u.v. spectrophotometry, 7E17
 in vitamin preparations, by g.l.c., 12E33
- detmn. of impurities in soln. of, by u.v. spectrophotometry, 7E17
- Dextran**, detmn. of, in sugar-cane juice, by pH measurement, 4A1B
- Dextrans**, sepn. of, by gel-filtration chromatography on Superose 6B, 10J48
- Dextromethorphan**, detmn. of, in urine, by h.p.l.c., 9D89
- Dextropropoxyphene**, detmn. of, in blood and urine, 7D37
 sepn. of diastereoisomers of, by h.p.l.c., 8E53
- Dextropropoxyphene napsylate**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 11E24
- Dextrorphan**, detmn. of, in urine, by h.p.l.c., 9D89
- Diabase**, detmn. of osmium in, by chromatography - a.f.s., 1B147

- Diadenosine 5',5'''-P₁P₃-triphosphate**, detmn. of, in eukaryotic cells, enzymic - luminescence method for, 6D276
- Di-allyle**, detmn. of, in sediments, by g.l.c., 7H69
- Dialysis**, apparatus for efficient multiple-sample, 7J6
apparatus for rapid, 12J8
cells for high sample-convection Donnan, 7J5
equilibrium, conical cells in, reduction of equilibration time by, 6J13
- Dialysis fluid**, detmn. of aluminium in, by graphite-furnace a.a.s., 8D24
spectrophotometric, 10D34
detmn. of ceftazidime in, by h.p.l.c., 11D52
- Diamantane**, h.p.l.c. of halo-derivatives of, 5C61
- Diamines**, detmn. of, by h.p.l.c., 7D153
detmn. of aromatic, enzyme electrode based on caeruloplasmin for, 10J144
- α,ω -Diamines**, detmn. of, by h.p.l.c. with fluorimetric detection, 7C27
- Diamond**, detmn. of nitrogen in, by Rutherford back-scattering spectrometry, 7B74
- Diamorphine**, analysis of, by capillary g.c., 1E8
analysis of illicit, by g.c., review, 7J58
detection of, in illicit drugs, by g.l.c., 6E6
detection of adulterants and diluents in illicit, by g.l.c., 11E4
detection of impurities in illicit, by g.l.c., 8E8
detection of thebaine derivatives in, identn. of origin by, 6E10
detmn. of, by h.p.l.c., 2E5, 10E8
by measurement of pitch of liquid-crystal matrices, 8E9
in blood and urine, by t.l.c., 1D40
in illicit heroin, by chromatography, 6E9
detmn. of *O*-acetylmorphine in, by t.l.c. and h.p.l.c., 3E2
detmn. of impurities in, by derivatization - g.l.c., 12E8
detmn. of opiates and sugars in, by h.p.l.c., 2E9
detmn. of strychnine in, by colorimetry, interference in, 4E11
identn. of, by h.p.l.c., 3E3
identn. of *O*-acetylmorphine as decomposition product in, by h.p.l.c. and g.c., 5E8
- o*-Dianisidine**, detmn. of, in waste water, enzyme electrode for, 2C31
identn. of, in snuff, by t.l.c., 4E22
- Diazepam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
detmn. of, in animal feed, by h.p.l.c., 6G26
in aprotic media, 4E45
in biological fluids, by r.i.a., antiserum for, 10D91
in biological materials, stability-indicating, 3D55
in commercial formulations, by spectrophotometry, 1E21
in liquid pharmaceutical preparation, by titration, 9E38
in pharmaceutical preparations, by h.p.l.c., 5E44
by spectrophotometry with picric acid, 4E43
in plasma, by extraction on Extrelut columns and polarography, 10D92
in plasma and urine, by extraction - spectrophotometry, 9D64
in serum, by g.l.c., 11D75
by liquid chromatography, 7D58
in tablets, spectrophotometric, 11D74
sodium tetrathiocyanatomercurate^{II} in gravimetric, 8E59
sepn. of glucuronide of, from urine, by h.p.l.c., 8D44
- desmethyl*-**, detmn. of, in plasma, by g.l.c., 6D93
in serum, by g.l.c., 11D75
- Diazinon**, detmn. of, in air, by t.l.c., 11H29
in waters, by g.c., pre-concentration technique for, 4H78
- Dibekacin**, detmn. of, in plasma and serum, by fluoro-immunoassay, 10D71
in serum, by automated h.p.l.c., 9D50
- Dibenzacridines**, detmn. of, in high-protein foods, by g.c., 7F37
- Dibenzepin**, detmn. of, by rotating-disc-electrode voltammetry, 7E24
- Dibenzo-*p*-dioxin, 2,3,7,8-tetrachloro-**, detmn. of, in fish, by g.c. after sample clean-up, 7D102
in pesticides, by g.c., 4G29
in plants, by g.c. - m.s., clean-up procedures for, 11G7
in soil, by g.c. - m.s., 11G8
in sugar, by g.l.c. - m.s., 6F26
in water and waste water, by g.c. - m.s., 7H71
- Dibenzo-*p*-dioxin derivatives, chloro-**, detmn. of, by g.c. - m.s., 5C41, 12C38
by high-resolution g.c. - m.s., 5C57
by isomer-specific techniques, review, 11H3
in air, by liquid carbon dioxide extraction - g.c. - m.s., 9H32
in environment, 9A5B
in environmental materials and fish, bovine and human tissues, review, 4H4
in fly ash, by g.c. - m.s., 3H81
by h.p.l.c. - g.c. - m.s., 7B146
- identn. of, by powder X-ray diffraction after g.c., 7C49
- Dibenzofuran**, detmn. of carbazole and anthracene in, by synchronous fluorescence spectrometry, 5C56
phosphorescence of, cyclodextrin-induced, 12C39
- Dibenzofuran derivatives**, detection of, in fish, by bio-assay, 4F34
- chloro*-**, detmn. of, by g.c. - m.s., 5C41
by isomer-specific techniques, review, 11H3
in environment, 9A5B
in environmental materials and fish, bovine and human tissues, review, 4H4
- Dibenzofuran derivatives—continued**
—, **tetrachloro-**, detmn. of, by g.c. - m.s., 5C54
- Dibenzothiophene**, detmn. of, in crude oil, reference standard for, 8C51
phosphorescence of, cyclodextrin-induced, 12C39
- Dibenzothiophene derivatives**, detmn. of oxygenated, by g.c., injection in, 7C51
- Dibutylamine, *N*-nitroso-**, detmn. of, in foods, by g.l.c. and h.p.l.c., 8F7
in rubber teats, by g.c. with thermal energy detection, 7C102
in urine, by h.p.l.c., 4D138
- Dicamba**, detmn. of, in formulations, by h.p.l.c., 4G32
- Dichlobenil**, detmn. of, by phosphorimetry, 5G32
in water, by g.l.c. and g.l.c. - m.s., 2H60
with 2,6-dichlorobenzamide, in water, by h.p.l.c., 11G26
- Dichlorophenol**, sepn. of isomers of, by g.l.c., stationary phases in, 4C37
- Dichlorprop**, detmn. of, by h.p.l.c., 3G16
- Dichlorvos**, detmn. of, in apples and pears, automated enzymic, 2F35
in fruits, by g.l.c., 2F33
in liquid carbon dioxide aerosols, by h.p.l.c., 10C5
in rice, soil and water, by g.c., 7G34
in vegetables, automated, 5F39
- Dichromates**, detmn. of vanadium in, by spectrophotometry with chlorosulphophenol S, 5B181
- Diclofop-methyl**, detmn. of, in formulations, by h.p.l.c., 4G30
in sediments, by g.l.c., 7H69
- Dicloran**, detmn. of, in soil, water and plants, by t.l.c. or g.c., 8H88
- Dicloxacillin**, detmn. of, in presence of degradation products, by h.p.l.c., 9E19
in urine, by t.l.c. and spectrophotometry, 8D38
- Dictyostelium discoideum**, assay of cyclic GMP-stimulated 3':5'-cyclic-nucleotide phosphodiesterase in, 7D249
- Dicyclohexylamine**, detmn. of, in products of cyclohexylamine production, by g.c., 9C30
- Dicyclomine hydrochloride**, detmn. of, in pharmaceutical preparations, by n.m.r., 12E47
- Dieldrin**, detmn. of, in human milk, by g.c., 1D78
in sewage sludge, by g.c., 6H103
in timber and formulations, by g.l.c., 6C50
- Dienestrol**, detmn. of, in faeces, by r.i.a., interference from fluocortolone and dexamethasone in, 5D149
in meat and meat products, by g.c. - m.s., 1F9
- Diesel fuel**, analysis of, by h.p.l.c. - g.c., 6C39
detection of, in water, by loss of internal reflection in optical fibre, 2H57
detmn. of, in water, by emulsification - g.c., 8H85
detmn. of nitrated PAH in combustion products of, by h.p.l.c. and capillary g.c. - m.s., 5C71
detmn. of quinizarin in, analyser for, 2C47
detmn. of trace elements in, by n.a.a., 3C47
- Dietary fibre**, detmn. of, in feeds, gravimetric, 11G19
in foods, 6F4
in fruit and vegetables, 8F6
in potato and wheat products, 2F1
in sunflower seed, acorn, peanut, pumpkin seed, hazel-nut and chestnut, 4F50
micro- and macro-digestion methods for, 3G10
detmn. of crude, ceramic fibre filter in AOAC method for, 12F5
detmn. of insoluble and soluble, in food, gravimetric, 9F8
detmn. of non-starch polysaccharides of, 6F12
- Dietary supplements**, detmn. of iodine in, by differential pulse polarography, 7F11
- Diethazine**, detmn. of, spectrophotometric, 8E47
- Diethylamine**, detmn. of, by extraction - spectrophotometry, 1C10
in water, by g.l.c., 12H89
- , ***N*-nitroso-**, detmn. of, in foods, by g.l.c. and h.p.l.c., 8F7
in rubber teats, by g.c. with thermal energy detection, 7C102
- Diethylcarbamazine citrate**, detmn. of, in tablets, by titration, 9E51
- Diethylpropion**, identn. of, in illicit preparations, microcrystalline, 12E6
- Difenacoum**, detmn. of, in animal tissue, by h.p.l.c., 5D113
by ion-pair h.p.l.c., 5D114
- Difenoxuron**, detmn. of, in onions, by t.l.c., 2G19
- Diflunisal**, detmn. of, in biological fluids, by h.p.l.c., 7D63
in plasma, by g.l.c., 6D82
in plasma and urine, by h.p.l.c., 8D49
- Digallic acid**, detmn. of, in tannic acids, by h.p.l.c., 2C77
- Digestion**, of organic material in water and waste water, automated system for, 12H50
PTFE bomb for, modified construction of, 5J1
- Digestive tract contents**, assay of β -galactosidase activity in murine, by ion-exchange h.p.l.c., 7D247
- Digitalis**, detmn. of gitoxin and digitoxin of, by h.p.l.c., 3E10
- Digitalis glycosides**, detmn. of, fluorimetric, 11E10
sepn. of, from plant materials, by h.p.l.c., 4E16
- Digitalis lanata Ehrh.**, detmn. of lanatoside C in, 4E19
- Digitoxigenin bisdigitoxoside**, detmn. of, in serum, by t.l.c. - r.i.a., 7D47
- Digitoxigenin monodigitoxoside**, detmn. of, in serum, by t.l.c. - r.i.a., 7D47
- Digitoxin**, detmn. of, in pharmaceutical preparations, by t.l.c. - spectrophotometry, 11E12
in serum, by t.l.c. - r.i.a., 7D47
r.i.a. for, 10D62

- Digitoxin**, detmn. of, —continued
of *Digitalis* spp., by h.p.l.c., 3E10
- Digoxin**, detmn. of, by enzyme immunoassay, electrode in, 5D51
in biological materials, by enzyme immunoassay, 12D64
in blood, by enzyme immunoassay, 6D59
interference by fluorescein in automated, 6D54
in plants, enzymic, 2E15
in plasma, by r.i.a., interference in, 12D65
limit of detection in, 12D62
in plasma and serum, by r.i.a., sources of error in, 4D79
in plasma of infants or in amniotic fluid, by r.i.a., interfering substance in, 8D35
in presence of Fluosol-DA, by r.i.a., 1D6
in serum, affinity-column-mediated immunometric, 10D61
by automated and manual r.i.a., 9D44
by enzymic assay - liquid chromatography, 5D9
by fluorescence polarization immunoassay, interference by protein in, 9D42
by immunoassay, interference in, 6D60
by r.i.a., inter-laboratory study of, 2D195
by r.i.a. and fluorescence polarization immunoassay, 9D43
in serum of new-born babies, by fluorescence polarization immunoassay, effect of digoxin-like immunoreactive substance in, 12D63
in tablets, by solubility test, 6E16
detmn. of antibodies to, by potentiometric ionophore-modulation immunoassay, 12D10
- Digoxin-like immunoreactive substance**, detection of, in serum, by fluorescence polarization immunoassay, 12D63
- Dihydroliipoamide reductase (NAD⁺)**, assay of, in beef, 11F16
- Di-iodohydroxyquinoline**, detmn. of, in pharmaceutical preparations, 2,6-dichloroquinone chlorimide in spectrophotometric, 12E56 spectrophotometric, 3E43
- Dill oil**, detmn. of carvone in, by second-derivative u.v. spectrophotometry, 3C59
- Dill pickles**, detmn. of pesticide residues in, by g.c., 4F9
- Dioxanide furate**, detmn. of, in dosage forms, by h.p.l.c., 2E44
- Diltiazem**, detmn. of, and its deacetyl metabolite, in plasma, by g.l.c., 9D84
by potentiometry, electrode for, 9J138
- Dimenhydrinate**, detmn. of, by colorimetry, 8E72
in serum and tablets, by h.p.l.c., 6D114
- Dimethoate**, detmn. of, in air, by t.l.c., 11H29
in fruits, by g.l.c., 2F33
in nectar, by g.l.c., 7D107
- Dimethothiazine**, detmn. of, in dosage forms, by synchronous luminescence spectrometry, 6E52
- Dimethylamine**, detmn. of, in air, by ion chromatography, 1H14
in biological materials, by g.l.c., 5D174
in fish, by g.c., 4F35
- , *N*-nitroso-, detmn. of, in foods, by g.l.c. and h.p.l.c., 8F7
in malt, by pre-concentration and g.l.c., 10F61
in non-fat dried milk, by g.l.c., 12F21
in rubber teats, by g.c. with thermal energy detection, 7C102
- Dimethyl sulphate**, detmn. of, in products of dye manufacture, by g.c., 10C68
- Dimetridazole**, detmn. of, in chicken and turkey, by h.p.l.c., 2F18
- Diminazene**, detmn. of, in plasma, by h.p.l.c., 2D104
- Dimyristins**, analysis of pyrolysis products of, by g.c., 8D125
- Dinitolmide**, detmn. of, in chicken and eggs, by h.p.l.c., 11F17
- Dinobuton**, detmn. of, in aq. soln., by polarography, 5G30
- Dinoseb**, detmn. of, in water and sediment, by h.p.l.c., 11H67
- Dimoterb**, detmn. of, in water and sediment, by h.p.l.c., 11H67
- Diols**, detection of, in polyesters, by g.c., 12C70
detmn. of aldehydes in periodate-oxidation products of, by spectrophotometry, 6D153
- α,ω -Diols**, detmn. of, in mixtures, by g.l.c. - m.s., 6C8
- cis-Diols**, sepn. of, by affinity chromatography - h.p.l.c., 7D223
- Diorite**, detmn. of metals in, by a.a.s., solubilization in, 1B155
- Diosgenin**, detmn. of, in plants, by enzyme immunoassay, 9D135
- Diosmetine**, detmn. of, in plasma, by h.p.l.c., 2D115
- Diosmine**, detmn. of, in plasma, by h.p.l.c., 2D115
- Dioxacarb**, detmn. of, in urine, by g.l.c., 3D86
- 1,4-Dioxan**, detmn. of, in cosmetics, by g.c., 8C73
- 1,3-Dioxan-5-bromo-5-nitro-**, detection of, in cosmetics, by t.l.c., 2C56
detmn. of, in shampoo and bath products, by chromatography and spectrometry, 5C92
- 1,3-Dioxepin, 4,7-dihydro-**, detmn. of, by g.l.c., 7C48
- Dioxin derivatives**, detection of, in fish, by bio-assay, 4F34
identn. of polychlorinated, in air, by g.c. - m.s., 6H37
- 1,3-Dioxolan-2-one, 4-methyl-**, detmn. of propionaldehyde and acetone in, polarographic, 9C38
- Dipeptidyl carboxypeptidase**, assay of, in plasma, by r.i.a., 3D268
in serum, by colorimetry, 1D226, 6D305
by inhibitor-binding assay, 12D237
by microcentrifugation, 8D247
by spectrophotometry, 1D224, 5D252, 6D312, 12D231
colorimetric, 12D241
detection of, on agarose gels after isoelectric focusing, 3D264
- Diphenhydramine**, detmn. of, in pharmaceutical preparations, iodimetric, 6E44
- Diphenhydramine**, detmn. of, —continued
ion-selective electrode in potentiometric, 2E38
in plasma, by g.l.c., 3D68
in serum, by g.l.c., 5D88
in tablets, by extraction - flow-injection analysis, 5E45
sepn. of, by ion-pair h.p.l.c., 12E37
- Diphenhydramine hydrochloride**, detmn. of, in formulations, spectrophotometric or titrimetric, 8E48
- Diphenylamine**, detmn. of, 2,4-dinitrotoluene in, 2A5
- Dipropen**, detection of, in biological fluids, by t.l.c., 5D80
- Diprophylline**, detmn. of, in serum, by h.p.l.c., 4D74
- Dipropylamine, N-nitroso-**, detmn. of, in trifluralin, by g.l.c., 4G31
- Dipyridamole**, detmn. of impurities in, by h.p.l.c., 7E34
- Dipyrene**, detmn. of, in biological fluids, by h.p.l.c., 6D84
in liver, by spectrophotometry, 4D98
in pharmaceutical preparations, by h.p.l.c., 4E33
detmn. of intermediates of, in technical products, by h.p.l.c., 5E33
detmn. of metabolites of, in plasma, by h.p.l.c., 9D61
- Diquat**, detmn. of, by differential pulse polarography, 5G34
in blood and urine, by g.c., 9D105
in potatoes, by g.l.c., 6G29
- Dironyl**, detmn. of, in pharmaceuticals, by spectrophotometry and fluorimetry, 10E11
- Dirt**, detmn. of, in sugar cane, 4A1B
- Disaccharides**, detmn. of, by g.l.c., 5C21
by h.p.l.c., 5C20
as dimethylphenylsilyl derivatives, 1D89
sepn. of, by h.p.l.c., 2C12, 3C9
by t.l.c., 1D83
- Disopyramide**, detmn. of, and its mono-*N*-dealkylated metabolite, in serum, by h.p.l.c., 10D100
in serum, by h.p.l.c. and enzyme-multiplied immunoassay, 4D118
by t.l.c. - reflectance scanning, 11D94
sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Dissociation constants**, calculation of, from absorbance ratios, 5A33
- Distamycin A**, sepn. of, from decomposition products and analogues, by h.p.l.c., 4E29
- Distillation**, micro-, of essential oils, apparatus for, 6C47
- Disulfiram**, detmn. of, in biological fluids, review, 10D110
- Disulfoton**, detection of, by g.c., effect of column temp. on, 1G17
detection of oxo-analogue of, by t.l.c., 4G38
- Disulphide bonds**, detmn. of, in peptides and proteins, 11D196
- Disulphides**, detmn. of protein - glutathione, by h.p.l.c., 1D152
sepn. of, by liquid chromatography, 4D227
- , **organic**, detmn. of, in tissues, by a.a.s. of copper from bound dye, 3D10
- , —, **dialkyl**, sepn. of, by g.l.c., 4C29
- , —, **dimethyl**, detmn. of, in air and dust, by g.c., 4H29
- Diterpene esters**, detection of, in croton oil, by h.p.l.c., 8E26
- Dithianon**, detmn. of, in apples, by h.p.l.c., 7G32
- Dithionate**, detmn. of, by potentiometric titration, 6B124
in presence of other sulphur anions, by pptn. - spectrophotometry, 8B95
- Dithizone S**, as reagent for metals, 5A4
- Diurea sulphate**, analysis of, by thermogravimetry - evolved-gas analysis, 8J132
- DNA nucleotidyltransferase**, assay of, in sodium dodecyl sulphate - polyacrylamide gels, 8D238
- DNOC**, detmn. of, in aq. soln., by polarography, 5G30
in water and sediment, by h.p.l.c., 11H67
- Dodecanoic acid pentachlorophenyl ester**, detmn. of, in timber and formulations, by colorimetry or g.l.c., 6C50
- Dodecanol**, detmn. of, in sodium dodecyl sulphate, by h.p.l.c. or surface-tension lowering, 5C85
- Dodecenols**, identn. of double bond positions in, by g.c. - m.s., 11G42
- Dolichols**, detmn. of, in tissues, by t.l.c. and h.p.l.c., 3D98
- Dolichyl phosphates**, detmn. of, in tissues, by t.l.c. and h.p.l.c., 3D98
- Dolomite**, detmn. of calcium oxide, magnesium oxide and silica in, 10B144
- Donbass-1 inhibitor**, detmn. of, in air, by t.l.c., 7H21
- Dopa**, detection of, by h.p.l.c., electrochemical detector for, 10J40
detmn. of, by anodic voltammetry, 12E45
in pharmaceutical preparations, molybdophosphoric acid in spectrophotometric, 11E19
in plasma, by h.p.l.c., 6D61, 12D154
in rat brain, by h.p.l.c., 7D160
detmn. of metabolites of, in urine, by h.p.l.c., 10D156
- L-Dopa**, detmn. of, by h.p.l.c. with voltammetric detection, 7E26
- Dopa, 5-(L-2-amino-2-carboxyethylthio)-**, detmn. of, in urine, by h.p.l.c., 7D175
- , **6-hydroxy-**, detmn. of, by h.p.l.c. with voltammetric detection, 7E26
- , **methyl-**, detmn. of, in combination with thiazides, in pharmaceutical preparations, by h.p.l.c., 7E35
- Dopamine**, detection of, by h.p.l.c., electrochemical detector for, 10J40
detmn. of, by anodic-stripping voltammetry, 5E37
by anodic voltammetry, 12E45
by flow-injection analysis or h.p.l.c., electrochemical detector for, 12J40
in biological materials, by h.p.l.c. as dansyl derivatives, 4D208
in brain, by h.p.l.c., 2D162

Dopamine, detmn. of.—*continued*

- in human urine, by h.p.l.c. with post-column derivatization, 12D152
- in plasma, by h.p.l.c., 2D166
- deconjugation for, 10D155
- radio-enzymic, 2D165
- in presence of ascorbic acid, by voltammetry, 3D130
- in rat brain, by h.p.l.c., 6D205, 8D146
- with electrochemical detection, 10D158
- in urine, by h.p.l.c., 2D164
- fluorimetric, 8D151
- detmn. of glucuronide and sulphate conjugates of, in plasma, radio-enzymic, 12D155
- sepn. of, by ion-pair liquid chromatography, 11D160
- from related tetrahydroisoquinolines, by chromatography, 5D166
- Dopamine β -monooxygenase**, assay of, in biological fluids, by h.p.l.c., 12D228
- Dopamine O-sulphate**, detmn. of, by h.p.l.c. with dual-electrode electrochemical detection, 1D126
- Dothiepin**, detmn. of, by rotating-disc-electrode voltammetry, 7E24
- Doxepin**, detmn. of, and its metabolites, in biological materials, by t.l.c. and g.l.c., 3D57
- in plasma, by h.p.l.c., 2D81, 7D69, 10D93
- by h.p.l.c. and t.l.c., 5D68
- in serum, by h.p.l.c., 4D107
- in tablets, by ion-pair h.p.l.c., 8E63
- , **desmethyl-**, detmn. of, in plasma, by h.p.l.c., 7D69
- by h.p.l.c. and t.l.c., 5D68
- in serum, by h.p.l.c., 4D107
- Doxorubicin**, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
- and its metabolites, in plasma, by h.p.l.c., 12D71
- by h.p.l.c., 12E29
- in plasma and urine, by h.p.l.c. and r.i.a., 8D40
- in serum, by enzyme immunoassay, 8D41
- in tumour interstitial fluid, by *in vivo* fluorimetry, with single-fibre fluoroprobes, 4D84
- , **1-demethoxy-**, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
- , **4'-deoxy-**, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
- , **4'-epi-**, detmn. of, and its 8-hydroxy-metabolite, in plasma and urine, by h.p.l.c., 11D58
- in plasma and urine, by h.p.l.c., 10D74
- , **4'-O-tetrahydropyranyl-**, detmn. of, in biological materials, by h.p.l.c., 8D43
- Doxycycline hydrochloride**, detmn. of, in capsules, colorimetric, 11E16
- in dosage forms, by spectrophotometry, 1E16
- Doxylamine**, detmn. of, in plasma, by h.p.l.c., 3D69
- in plasma and urine, by h.p.l.c. and g.l.c., 10D105
- identn. of, in post-mortem materials, 8D78
- Doxylamine succinate**, identn. of, microscopic and chemical, 1E1
- Drofenine**, sepn. of, by ion-pair h.p.l.c., 12E37
- Droperidol**, anodic voltammetry of, at rotating platinum or gold electrodes, 8E60
- detmn. of, and its degradation products, by h.p.l.c., 10E26
- Drugs**, analysis of, by chromatography, review, 7D1
- by head-space g.l.c., 5J50
- methods for, review, 3D29
- thickly coated open-tubular columns in g.l.c., 4J72
- analysis of illicit, by t.l.c., 2E3
- antacid, sepn. of aluminium from magnesium in, 1E37
- antidotes for mercury poisoning, detmn. of phosphites in, by titrimetry, 5B165
- assessment of purity of, by differential scanning calorimetry, optimization of, 4J177
- detection of, and metabolites, in plasma and urine, by g.c., 10D49
- detection of amine-related, in brain, by h.p.l.c. or micro-electrodes, review, 5D172
- detection of basic, in bile, colorimetric, 10D53
- detection of iron in, 8B110
- detmn. of, 11D258B
- and metabolites, by h.p.l.c. with on-line diode array spectrophotometric detection, 3D75
- in biological materials by h.p.l.c., review, 4D68
- in blood, systematic, 12D55
- by chemiluminescence or bioluminescence, review, 5A3
- by enzyme-linked immunosorbent assay, 1D36
- by g.l.c., column for, 4J70
- by g.l.c. with e.c.d., review, 7D41
- by h.p.l.c., 2E5
- automated system for, 6J27
- data system for, 4E5
- peroxide - oxalate chemiluminescence detection system for, 11J31
- by micro-bore column h.p.l.c., 6J29
- by r.i.a., review, 11D34
- by titrimetry, review, 7E1
- by t.l.c., 1E45B
- by t.l.c. with transmission, reflectance and fluorescence detection, review, 4D67
- in biological fluids, by h.p.l.c. with flow programming, 7D90

Drugs, detmn. of, in biological fluids.—*continued*

- by time-resolved fluorimetry, 6D53
- by t.l.c. on reversed-phase bonded silica, 3E33
- pre-analytical methodology for, review, 7D40
- review, 11D33
- in biological materials, by assay with microbial enzymes, 4D69
- by h.p.l.c. with electrochemical detection, 5D57
- isotope derivatization in, review, 8D34
- review, 7D39
- in blood, by automated fluorimetry or photometry, 4J10
- effect of evacuated collection tubes in, 6D52
- interference by fluorescein in automated, 6D54
- in body fluids, by metal chelate formation, review, 11D37
- in formulations and biological systems, diffuse reflectance in, 5E4
- in pharmaceutical products and biological materials, by t.l.c., screening procedure for, 4E7
- in plasma, by radioreceptor techniques, review, 10D52
- in plasma or serum, ultra-micro filtration in, review, 12D54
- in saliva, review, 10D50
- in serum, by EMIT with centrifugal analyser, 9D38
- by fluoro-immunoassay, with centrifugal analyser, 7D42
- in tablets or capsules, by h.p.l.c., 6E4
- in urine, by t.l.c., 4D65
- in whole blood, serum or plasma, by spectrometry or g.c., 1D38
- pitfalls and errors in, pharmacokinetic aspects of, review, 11D36
- review, 11D35
- with microbial enzymes as diagnostic reagents, 4D2
- with their metabolites, in biological fluids, review, 7D36
- X-ray and u.v. excitation in fluorimetric, 5E31
- detmn. of amine-type, by spectrophotometry, 4E8
- detmn. of antimicrobial, in animal feed, by t.l.c., 11G22
- detmn. of basic, by h.p.l.c., 8E2
- in dosage forms, hair dyes and plasma, by h.p.l.c., 8E1
- detmn. of benzene chromophore-containing, substitution and solvent effect on u.v. spectrometric, 3E21
- detmn. of benzenoid, derivative u.v. spectrophotometric, 10E3
- detmn. of caffeine in illicit opiate, colorimetric, 10E13
- detmn. of calcium in, 1,3-bis-(2-pyridylmethyleneamino)urea in spectrophotometric, 9B36
- detmn. of cytotoxic, in plasma, by t.l.c., mobile phases for, 2D106
- detmn. of glibenclamide or tolazamide in, by n.m.r. spectrometry, 4E59
- detmn. of iron in, by spectrophotometry, 5B220
- detmn. of mercury in, spectrophotometric, 8B39, 9B51
- detmn. of metabolites of, radio-labelled internal standards in, 5D7
- detmn. of sulphur, in foods, review, 8F1
- detmn. of tannins in natural, by spectrophotometry, 4E10
- detmn. of vermiculin in, by h.p.l.c. and t.l.c., 4E27
- extraction of, from biological fluids, 4D63
- by sorption or solvent extraction, 5D59
- S Soxhlet apparatus in, 4D64
- extraction of acidic, from aq. soln. and plasma, 10D79
- identn. of, by computer-controlled i.r. spectrometry, 1E3
- by reactions of functional groups, 4E2
- by t.l.c., principal-components analysis of R_F values in, 8D33
- reagent for, 4E9
- in biological fluids, by g.l.c. and t.l.c., 5D40
- identn. of abused and therapeutic, review, 9E1
- identn. of enantiomers of amine, in mixtures, by g.c. - m.s., 7E25
- measurement of chemical stability of, review, 12E1
- monitoring of, by h.p.l.c., 1D35
- therapeutic, review, 10D51
- narcotic, multilingual dictionary of, 7E47B
- of abuse, detection of, in urine, by t.l.c., 3D31
- detection of adulterants and diluents in, by g.l.c., 6E6
- detmn. of, forensic, review, 2E2
- ion-selective electrodes for, 6J174
- identn. of, microcrystalline, 12E6
- screening for, review, 3D30
- sampling of, serum-separator blood-collection tubes for, 4D66
- sepn. of, by two-dimensional t.l.c., 11J45
- sepn. of basic, by reversed-phase h.p.l.c., 7E18
- sepn. of enantiomers of, by g.c., 7E3
- by liquid chromatography, chiral phase for, 6E35
- sepn. of tricyclic and tetracyclic antidepressant, by h.p.l.c., 1D53
- stability testing of, review, 4E1
- thermal analysis of, 7E2
- thermal analysis of binary mixtures of isomorphous and polymorphous, 12E2
- thermal analysis of hydrates of, 1E2
- Dryas octopetala**, sepn. of flavonoid glycosides from, by h.p.l.c., 8E19
- Drying oils**, detmn. of, in paints, by n.m.r., 6C58
- Duck**, detmn. of sulphonamides in, by t.l.c., 2D101, 2D102
- Dulcitol**, detmn. of, by h.p.l.c., 7F23
- Duodenal fluid**, detmn. of free and conjugated bile acids in, by t.l.c., 10D150
- detmn. of prealbumin in, by r.i.a., 6D250
- Durene**, detmn. of, in phthalic anhydride, by g.c., 5C47
- Dust**, detmn. of, in air, by electron-energy absorption, 5H9
- in metallurgical exhaust gases, device for continuous radiometric, 5H13

Dust, detmn. of,—*continued*

- in purified gases from steam-generating plants, sampler for, 6H10
 - detmn. of aflatoxins in air-borne, by AOAC method, 12H40
 - detmn. of asbestos in, of asbestos factory, by X-ray diffractometry, 5H8
 - detmn. of heavy metals in, by a.a.s., 3H5
 - detmn. of heavy metals in urban, by a.a.s., optimized extraction procedure for, 4H15
 - detmn. of nitro-PAH in, by h.p.l.c. - g.c. - thermal energy analyser, 12H39
 - detmn. of odorous sulphur compounds in, by g.c., 4H29
 - detmn. of PAH in, by g.c. - m.s. or g.c. - f.i.d., 7C44
 - detmn. of phenylmercury compounds in, by g.c., 11G33
 - detmn. of silica in respirable, in coal mines, by i.r. spectrophotometry, 4H30
 - detmn. of thallium in, from cement kiln, by anodic-stripping voltammetry, 4B75
 - detmn. of trace cyanide in, by ion chromatography, 5H19
 - , **atmospheric**, analysis of, 10A3B, 12H14
 - by energy-dispersive XRF, 8H9
 - by X-ray photoelectron spectrometry, 8H10
 - gravimetric sampler for, 8H7
 - micro-probe, 10A4B
 - analysis of work-place, 9H7
 - by XRF, review, 9H11
 - detmn. of, instantaneous direct-reading instruments for, 9H8
 - in workplaces, by a.a.s., 9H9
 - detmn. of cadmium, mercury and lead in, by anodic-stripping voltammetry, 12H17
 - detmn. of cobalt in, spectrophotometric, 9B152
 - detmn. of PAH in, by g.c., 6H38
 - detmn. of phosphate, polyphosphates and soluble silicate in, spectro-photometric, 12H7
 - detmn. of quartz in, by X-ray diffraction, 12H13
 - detmn. of trace elements in, by n.a.a. and a.a.s., 10H10
 - by spectrography, collection system for, 7H11
 - detmn. of workplace, samplers for, 6H11
 - detmn. of zirconium in, as measurement of radioactivity, 8H14
 - monitoring of, optical, 11H4
 - samplers for, automated, 6H12
 - sampling of respirable, in coal-mine, personal samplers for, 2H5
- Dyes**, analysis of, for ecological and toxicological assessment, review, 11H2
- analysis of diagnostic, by t.l.c., for quality control, 9E54
 - azo-, detmn. of, by reductometric titrimetry with titanium^{III}, 8C75
 - coal-tar, identn. of blue and green, in foods, by t.l.c., 6F19
 - detection of, on filters, by surface-enhanced Raman scattering spectrometry, 12C60
 - detection of *N*-substituted phthalimides in, by g.l.c. - m.s., 2C60
 - detmn. of, in confectionery, by h.p.l.c., clean-up for, 2F13
 - in cosmetics, by h.p.l.c. - spectrophotometry, 10C67
 - in food, by dual-wavelength spectrophotometry, 3F8
 - by extraction - t.l.c., 4F36
 - detmn. of 1-aminoanthraquinones in, by h.p.l.c., 2C62
 - detmn. of cosmetic azo-, by h.p.l.c., 8C76
 - detmn. of dimethyl sulphate in products of manufacture of cationic, by g.c., 10C68
 - detmn. of lead in, by a.c. polarography, 2C58
 - detmn. of water in by-products of, by extraction - g.c., 10C69
 - for fabrics, sepn. of, by t.l.c., 3C62
 - for foods, analysis of, by h.p.l.c., 7F27
 - detmn. of, by resonance Raman spectrometry, 1F3
 - in beverages and foods, by h.p.l.c., 6F18
 - in dairy products, by h.p.l.c., review, 9F30
 - in shrimp products, by h.p.l.c., 8F35
 - detmn. of colourless organic constituents of sulpho-group-containing, by h.p.l.c., 11F9
 - detmn. of uncombined intermediates in, by ion-pair liquid chromatography, 7F25
 - for hair, analysis of, by h.p.l.c., 5C91
 - detmn. of aminophenols and phenylenediamines in, by h.p.l.c., 7C84
 - detmn. of basic drugs in, by h.p.l.c., 8E1
 - detmn. of toluenediamines, 1-naphthol and resorcinol in, by h.p.l.c., 7C85
 - for leather, identn. of, by t.l.c., 11C60
 - identn. of, in cosmetics, by t.l.c., 7C82
 - in forensic samples, by g.c. - m.s., 3C65
 - in nail lacquers, by extraction - t.l.c., 12C57
 - identn. of synthetic, in leather, by paper chromatography and t.l.c., 12C80
 - measurement of absolute fluorescence quantum yields of, by optoacoustic spectrometry, 4C76
 - sepn. of, by t.l.c., adsorbents for, 12J51
 - sepn. of naphthalenesulphonic acids used in production of, by reversed-phase ion chromatography, 10C70
 - t.l.c. of, 5J47

Dysprosium, detmn. of, chlorophosphonazo-mN in spectrophotometric, 5B87

- in lanthanoid mixtures, automated spectrofluorimetric, 6B86
- in materials based on zirconium dioxide, by spectrophotometry, 6B85
- in semiconductor alloys, by spectrophotometry, 4B82

Dysprosium, detmn. of,—*continued*

- in steel, by spectrography, hollow-cathode discharge tube for, 5B236
- in thulium oxide, by luminescence method, 10B67
- in uranium hexafluoride, spectrographic, 12B76
- sepn. of, from other heavy lanthanoids, by ion-exchange chromatography, 10B66

E

- Earthworms**, detmn. of cadmium, lead and thallium in, by isotope dilution - m.s., 12D27
- Ecdysteroids**, sepn. of, by two-dimensional t.l.c., 11J45
- Ecdysterone, 20-hydroxy-**, detmn. of, in boll weevils, by h.p.l.c., 7D141
- Ecgonine, benzoyl-**, detmn. of, in blood and urine, by r.i.a., 9D40
- in urine, by spectrophotometry, 5D50
- EDTA**, detmn. of, 4-aminoantipyrine in absorptometric, 8C16
- as iron^{III} complex, by ion-exchange chromatography, 5C34
 - by anodic-stripping voltammetry, 5C33
 - by ion-pair h.p.l.c. of iron^{III} complex, 6C13
 - by size-exclusion chromatography with electrochemical detection, 11C13
 - catalytic-kinetic spectrophotometric, 12C22
 - complexometric, 10C27
 - in boiler water, by ion-pair h.p.l.c., 10H78
 - in corrosion inhibitors, titrimetric, 10B82
 - indicator system for titrimetric, 10B12
 - in foods, by h.p.l.c., 7F28
- , **tetrasodium salt**, detmn. of, by amperometric titration, 6E59
- Eel grass**, detmn. of heavy metals in, by a.a.s. and emission spectrography, 5D24
- Efrotomycin**, detmn. of, aluminium in spectrophotometric, 12E28
- Egg products**, detmn. of organic acids in, by g.l.c., as indicator of spoilage, 11F19
- Eggs**, detmn. of, in pasta, by radial immunodiffusion, 4F26
- detmn. of aflatoxicol, aflatoxin B₁ and aflatoxin M₁ in, 12F19
 - detmn. of alkyl-lead salts in, by g.l.c., 6H88
 - detmn. of antibacterial drugs in, by h.p.l.c., 11F17
 - detmn. of coumaphos and its oxygen analogue in, by h.p.l.c. and g.c. - m.s., 7F48
 - detmn. of DDE and PCB in, by g.c., 4D142
 - detmn. of lead and cadmium in, by dry-ashing - a.a.s., 8F4
 - detmn. of metals in, by a.a.s., 2F22
 - detmn. of nitrogen in, by combustion and g.c., 11D26
 - detmn. of purines in insect, by h.p.l.c., 10D239
 - detmn. of pyridoxine in yolk of pheasant, spectrophotometric, 8F36
 - detmn. of pyrimethamine in, by h.p.l.c., 4F29
 - detmn. of sulphonamides in, by h.p.l.c., 7F20
 - identn. of coumaphos and its oxygen analogue in, by g.c. - m.s. and h.p.l.c. - m.s., 7F49
- Eicosanoids**, detmn. of, by g.c. and m.s., review, 9D128
- in biological materials, review, 11D134
- Eicosanol, 3,6,9,12-oxa-**, detmn. of, in aq. soln., in presence of sodium dodecyl sulphate, by n.m.r., 5C88
- Eicosapentaenoic acid**, detmn. of, in plasma, 9-aminophenanthrene as fluorescent labelling agent in h.p.l.c., 10D126
- Eicosatetraenoic acid, 5-hydroxy-**, detmn. of, by g.c. - m.s. as pentafluorobenzyl ester TMS ether derivative, 8D120
- Eicosa-5,8,11,14-tetraenoic acid, 15-hydroxy-**, detmn. of, in rabbit reticulocytes, by r.i.a., 7D125
- Eicosatetraenoic acids, hydroxy-**, detmn. of, in biological materials, by h.p.l.c., 8D123
- Elastane fibres**, detmn. of, in blends, by hot extraction, 10C76
- Elastase**, assay of, by enzyme digestion, 8D252
- Congo red - elastin substrate in colorimetric, 9D263
 - detection of, in polyacrylamide gels containing covalently bound substrates, 9D268
- Electrical birefringence**, particle size analysis by, 2J130
- Electrical devices**, detection of moisture or contaminants in sealed, by m.s., 5B287
- Electrochemical analysis**, 7J141B
- computer-assisted, interface for, 8J120
 - detectors for, in flow analysis, review, 5J184
 - developments in, review, 5J161
 - in China, review, 3J100
 - in detmn. of hydrogen and its isotopes in soln., 5J168
 - instrument for, in detmn. of oxygen, 11J139
 - interpretation of data from, by computerized deviation-pattern recognition, review, 11A28
 - of dopants in silicon, apparatus for, 1B67
 - porous-layer, principles and applications of, 7D21
 - potentiostat for, 6J186
 - PTE cell for, 11J122
 - single coulometric decay curves in, 3J121
 - with platinum electrodes, effect of electrolyte purity on, 2J119
- , **spectro-**, multi-channel image detectors for, 6J124
- thin-layer cell for, with demountable gold or mercury - gold electrodes, 1J63
- Electrochemical deposits**, XRF of composite, 6B12
- Electrodes**, aluminium, as sensors in potentiometric titrimetry, 12J173

Electrodes, detmn. of,—continued

- for fluoride and phosphate, 11J144
- analysis of films on, by FT i.r. reflectance spectrophotometry and optoacoustic spectrometry, 8J119
- antigen, for detmn. of antibodies, 12D10
- as biological and immuno sensors, review, 5D3
- bacterial, for arginine, 8D171
 - for asparagine, 11J135
 - for nitrogen dioxide, 7J130
 - urea-sensitive, 1J107
- bi-layer lipid membranes in, for flow-injection analysis, 5J13
- biocatalytic membranes in, review, 1J100
- carbon-fibre, in detmn. of copper, by differential pulse voltammetry, 2B12
- carbon monoxide- and hydrogen-sensitive, 6J6
- dipping, in voltammetry, 1J115
- enzyme, based on caeruloplasmin, in detmn. of aromatic diamines and aminophenols, 10J144
 - computerized, 3J112
 - design and application of, review, 8J122
 - for acylthiocholines, 5J179
 - for alcohols, 7J132
 - for creatinine, 3J109
 - for detection of glucose in flow-injection system, 11J133
 - for detmn. of glucose and sucrose, 7F12
 - for ethanol, amperometric, 11F33
 - for glucose, 6J181, 10C14, 10D120, 10J145
 - ferrocene derivative as electron-transfer mediator in, 12J164
 - for β -glucosides, 11D122
 - for glutamic acid, 2D177
 - for lysine, 1J108
 - for L-lysine, 11J134
 - for polyhydric phenols and polyamines, 2J113
 - for salicylate, 12J165
 - for sucrose in presence of glucose, 3J110
 - for zinc, 3J106
- immobilized dehydrogenases in, 8J126
- in continuous clinical monitoring, 7D2
- maltose- or glucose-sensitive, effect of air-drying on, 12J163
- substrate-conversion efficiency and kinetic parameters of, 5J180
- enzyme-immobilized oxygen, for detmn. of primary aliphatic alcohols in aq. soln., 5J178
- enzyme immuno-, for theophylline, 1J109
- field-effect transistor in enzyme, for detmn. of urea, 5J181
- for ammonia, bilayer lipid membrane in, 6J179
- for atropine, 12J166
- for catalytic voltammetric detmn. of ascorbic acid, 7J137
- for chlorine, in waste water, 10B130
- for detection of end-point in potentiometric titration of fluoride, 8B102
- for hydrogen cyanide gas, 12J159
- for NADPH, 2D219
- for oxygen, strontium-doped lanthanum chromite, 1J105
- for pH measurement, in plant cells, 3J102
- iridium - iridium oxide, 10J131
- for superoxide dismutases, 3J111
- for thallium, 9D28
- for thin-layer spectroelectrochemistry, 12J169
- for urea, 7D155
- for voltammetry in highly resistive media, 12J168
- gas-sensing, for ammonia, osmolarity effects on, 12J161
 - for ammonia and carbon dioxide, 7J128
 - review, 12J152
- glass, in measurement of alkalinity in highly saline soln., errors of, 5H46
- hanging-mercury-drop, thermoelectrically controlled, 3J117
- indicator, for potentiometric titration of sulphate, 12B120
- in gas analysis, review, 8J8
- in medicine and pharmacy, review, 2D1
- ion-selective, as detectors in h.p.l.c., 4J33
 - based on chalcogenide glass, 11J126
 - based on macrocyclic compounds, selectivity of, 9J126
 - based on quinaline-2- and -8-carbodithioates of copper, zinc and iron, 9J129
- carbon-substrate, review, 12J151
- coated-wire, applications of, review, 6J174
- construction of cheap and simple, 12J153
- data analysis in non-linear response region of, 10A22
- definition of response time of, 12A18
- double standard-addition method with, computerized calculation for, 5J164
- for acebutolol, verapamil, diltiazem, nicardipine and lidoflazine, 9J138
- for alkali-metal and ammonium ions, 5J170
- for ammonium ion, 9J133
- for anionic surfactants, 9J136
- for anions of aliphatic acids, in titrimetry, 8C15
- for berberine, 11J137
- for bismuth^{III}, liquid-state membrane in, 6J180
- for boron, 5B71
- for bromide and chloride, 2B68

Electrodes, ion-selective,—continued

- for caesium, 1J103
- for calcium, 1J104
 - effect of anionic surfactants on, 2J111
 - interference in, 7B39
 - macrocylic polyether-amide for membrane in, 10J136
 - surfactant-tolerant, 5J172
- for chloramine T, in detmn. of mercury and silver, 4B51
- for chloride, 10J141
 - capillary design for, 7J131
- for cholic acids, 6E21
- for cinchocaine and hexylcaine, 8E66
- for cinchonine, 4J169
- for complex anions of gold, 9J128
- for copper, 1J102, 4J164, 12J157
- for copper^I, 9J127
- for copper^{II}, 9J130
- for copper, based on pptd. copper^{II} sulphide, 3J105
 - based on vanadium oxide bronzes, 3J103
 - effects of complexans on, 12J156
- for cyanide, selectivity of, 6J177
- for detmn. of magnesium and calcium and measurement of hardness of water, 10J137
- for detmn. of sodium and potassium in blood and urine, 5J171
- for dodecyl sulphate, in detmn. of ionic surfactants in shampoo, 8C70
- for flufenamate, 1J110
- for fluoride, 3F3
 - effect of hydroxide ions on, 9B137
 - effect of polishing on, 7B106
- for gallium, 10J138
- for gases, reconditioning of, 9J125
- for gold, membrane compositions for, 10J133
- for halides in electroplating baths, 7B12
- for hexafluoroarsenate, 7J129
- for hydrogen ion, 9J131
- for indium, construction and application of, 6J176
- for lactate, 9J137
- for lactate and salicylate, 11J132
- for lead^{II} perchlorate, 12B90
- for lithium, 8J123
- for manganese, 12J162
- for nitrate, 9J132
- for nitrate and perchlorate, oleophilic resin membrane in, 6J178
- for nitrite, 12J160
- for permanganate, 4J168
- for per-rhenate, 3J108
- for phosphate, review, 11J129
- for picrate, in study of Jaffe reaction, 4D210
- membrane for, 6J182
- for polyoxyethylene-type surfactants, 5J182
- for potassium, 2J110
- potassium molybdophosphate-based, 1B16
- for potentiometric measurement of gaseous oxides, 10J140
- for potentiometric titration, matching of, 1J98
- for potentiometric titrations involving diethyldithiocarbamate, 11J143
- for rare-earth metals, 5J173
- for rubidium, 10J135
- for silver and iodide, alkyl resin paint as membrane material in, 8J124
- for silver and sulphide, 10J134
- for sodium, 12B34, 12J155
 - membranes for, 6J175
 - neutral ionophores in membranes for, 5J169
- for sulphide, 2J112, 10J139
 - in detmn. of volatile thiols in fuel gas, 11C35
 - in monitoring of coke-oven gas, 2B88
 - in study of sulphate-reducing bacteria, 4J166
- for sulphite, 9J134
- for tetrabromothallate^{III}, 12J158
- for tetrachloroferrate^{III}, electroactive material for, 9J135
- for thallium^I, 3J107
- for tungstate, 5J176
- for uranyl ion, 11J128
- in analysis of water, 8H38
- in biochemical analysis, review, 7J126
- in clinical chemistry and medicine, review, 5D17
- in continuous-flow analysis, 7J8
- in detmn. of total dissolved sulphide, 4J167
- in direct potentiometry, 7J120
- in kinetic assays, automatic variable-time ratemeter for, 6D13
- in non-aqueous and mixed solvents, review, 7J119
- in titration of caesium, rubidium and potassium, 3J104
- in trace analysis, 6B3
- ion transfer across water - organic phase boundaries in, review, 12J150
- liquid-junction effects in, review, 7J125
- liquid-membrane-based, for anions, review, 11J125
- measurement of detection limits and selectivity coeff. of, by microcomputer-controlled system, 5J166

Electrodes, ion-selective,—continued

- measurement of selectivity coeff. of, by multiple standard-addition techniques, 5J167
 - membrane, with plant tissue as biocatalyst, 3D105
 - metal - polyalkoxyate complexes as basis of, review, 4J163
 - neutral lipophilic ion carriers in, review, 10J132
 - optimization of composition of neutral-carrier membrane for, 8J125
 - problems in preparation of samples for analysis by, 11J123
 - processing of data from, calculator program for, 7A22
 - properties of Cellophane-film-based, 11J127
 - response times of, 1J99
 - solid-phase, for ammonium ion, 11J131
 - solid-state, review, 7J123
 - with reversible contacts, 7J124
 - static-type, for calcium, 4D32
 - triocetyl chloride as neutral carrier in, 12J154
 - ion-sensitive field-effect transistor, review, 12J148
 - liquid-membrane, based on copper quinoline-8-carbodithioate, 12B39
 - containing dibenzo-18-crown-6 and potassium triethoxybenzenesulphonate, 11J124
 - for benzoic acid, 1J106
 - for berberine, 6J183
 - for hyoscyne hydrobromide and butylbromide, 2J115
 - liquid-membrane aspartate, for molybdenum and tungsten, 8B99
 - membrane, for amethocaine, 12E43
 - for nitrate and picrate, 11J130
 - for valinomycin, 11J136
 - silver sulphide in, 3B74
 - metallic, for direct potentiometry of proteins, 7D186
 - microbial, in amperometric and potentiometric sensors, review, 11J101
 - modulated rotating-disc, for derivative-mode analysis, 3J113
 - nitrobenzene-membrane, for surfactants, selectivity of, 6J184
 - optically transparent porous metal-foam, 7J122
 - plant-tissue-based amperometric, for tyrosine, 7J133
 - plate-type, in detmn. of powdered metals, 12B12
 - polishing of voltammetric, automated, 8J127
 - polymer-membrane, as gas sensors, calculation of response properties of, 5J174
 - porous tubular with internal stirring, for flow-injection and continuous-flow analysis, 2J5
 - potentials of, in non-aqueous solvents, reporting of, 10J128
 - PTFE-based membranes in, response properties of, 5J175
 - pyrolytic-carbon film, for anodic-stripping voltammetry, 6J187
 - reference, for chloride, 10J142, 10J143
 - ring - disc, with wide temp. range, construction of, 8J128
 - rotating-disc, amplitude enhancement and automatic scanning in electroanalysis with hydrodynamically modulated, 1J114
 - design and electrochemical behaviour of, 6J185
 - rotating ring - disc, with removable disc, 1J112
 - silver - silver⁺ ion reference, in dimethylformamide, 8J121
 - static-mercury-drop, modified valve seat for, 10J146
 - surface analysis of, by X-ray photoelectron spectroscopy, review, 12J149
 - vitreous-carbon, effect of electrochemical pre-treatment on, 10J129
 - enhanced electrochemical reversibility of, by heat treatment, 7J121
 - stabilization of, 2J109
 - wall-jet, for voltammetry, 1J113
- Electronic devices, detection of moisture or contaminants in sealed, by m.s., 5B287**
- Electron microscopy, 10A4B**
- analytical, X-ray micro-analysis in, 6J118
 - goniometers for, 5J68
 - high-resolution, review, 8J71
 - in materials science, 4B8
 - in X-radiometric analysis, instrument for, 4J88
 - reduction of radiation damage in, 7J75
 - review, 12J77
 - scanning, in environmental analysis, review, 11H1
 - secondary electron emission in scanning, review, 11J70
 - transmission, wavelength-dispersive micro-analysis by, 9J76
- Electron spectroscopy, coupled with m.s., in surface analysis, 12J116**
- in electron microscopy, review, 7J95
 - in surface analysis, 12B5
 - review, 12J115
 - in thin-film and surface analysis, review, 9J66
 - micro-probe analysis of films and surfaces by, 6J117
 - solid-state detector for, 5J142
- , **Auger, analysis of binary alloys by, 1B9**
- computerized differentiation of spectra in, 1J85
 - industrial applications of, review, 11J108
 - in surface analysis, 5J121
 - computer-aided, review, 11A26
 - Leybold-Heraeus LHS 10 system in, review, 8J107
 - review, 2J89, 11J107
 - without reference samples, 7J93
 - in surface analysis of metal oxide systems, 5J123
 - matrix-effect correction in, 7J96
 - review, 4J142, 9J109
 - surface preparation for, 5J125
 - taper-sectioning techniques for depth profiling in, 9J108

Electron spectroscopy—continued

- , **micro-probe analysis, 10A4B**
 - automated, 11J80
 - computer program for Gaussian equations in, 11J83
 - contamination of targets in, 1J84
 - in analysis of biological fluids, review, 6D3
 - in detmn. of carbon, 7B73
 - of plastics, 1C33
 - of thin films, 10J80
 - theory for, 9J107
 - , **photo-, in surface analysis, without reference samples, 7J93**
 - , **X-ray, analysis of chromium - oxygen systems by, 5B199**
 - calibration of instrument for, 5J124
 - coupled with XRF, 12J81
 - in analysis of electrode surfaces, review, 12J149
 - industrial applications of, review, 11J108
 - in surface analysis, 4J140, 5J121
 - computer-aided, review, 11A26
 - Leybold-Heraeus LHS 10 system in, review, 8J107
 - review, 2J89, 11J107
 - in surface analysis of catalysts, review, 12B181
 - in surface analysis of metal oxide systems, 5J123
 - interfacing of microcomputer with, 1J83
 - source for, silver $L\alpha$ X-rays as, 5J122
- Electron spin resonance, 11J117B**
- high-pressure, low-temperature cell for, 7J92
 - in detmn. of free radicals in polymer films, apparatus for, 7C95
 - instruments for, with stopped-flow mixing, 9J106
- Electrophoresis, 4J83B**
- antibody overlay technique for two-dimensional immuno-, 9D8
 - capillary, electrokinetic sepn. with micellar soln. in, 8J44
 - characterization of crop cultivars by, review, 11G3
 - columns for, micro-bore and capillary, review, 12J16
 - densitometric detection in, instrument for, 10J51
 - developments in, review, 5J18
 - digital image processing in, 4J47
 - high-performance, techniques for, 5J45
 - of proteins, detmn. of silver eluted from autoradiograms in, 4J48
 - on cellulose acetate, two-dimensional densitometry in, computerized, 10J53
 - photometer for detection in, 1J77
 - simultaneous staining of proteins in, 4D249
 - two-dimensional, sepn. of proteins by, review, 8D191
 - two-dimensional electropherograms in, TV camera - microcomputer system for evaluation of, 4J49
 - with densitometric detection, instrument for, 10J50
 - zone, in open-tubular capillaries, 8J43
 - in sepn. of organic and metal cations, 4J46
 - sample injection and on-line zone measurement in, 5J44
- , **on gels, acryloylmorpholine polymer in, for fractionation in hydro-organic solvents, 10J56**
- affinity, review, 10J57
 - apparatus for slab, 9J47
 - apparatus for vertical, 11J43
 - detection of anionic residues in agar for, by colloid titration, 10J54
 - detmn. of radio-labelled compounds in, instrument for, 8D193
 - high-resolution two-dimensional, in clinical analysis, 10J58
 - review, 7J50
 - in detection of glycoproteins, staining method for, 6D260
 - in sepn. of DNA fragments, 11D214
 - intensification of underexposed autoradiographs in, 11J41
 - photography of silver-stained gels in, 2D191
 - polyacrylamide-gradient tube gels for, apparatus for prep. of, 9J46
 - rapid de-staining in, 10J52
 - silhouette photography in, 10J55
 - silver staining in, 2J33
 - single-diode rectifier circuit power supply for, 11J39
 - two-dimensional, in clinical analysis, review, 1J40, 6D5
 - two-dimensional polyacrylamide, review, 2J34
 - uniform polyacrylamide tube gels in, apparatus for casting of, 6J52
- , **on paper, sepn. of cobalt^{III} complexes by, parameters for, 11B145**
- Electroplating solutions, detmn. of halides in, electrode for, 7B12**
- detmn. of hypophosphite and phosphite in, by ion chromatography, 8B80
 - detmn. of rhodium in, titrimetric, 12B163
 - detmn. of silver in cyanide-containing, by ion-selective electrode, 4J165
- , **aluminium, analysis of, by aluminium-27 n.m.r. spectrometry, 9B59**
- , **copper, analysis of, for circuit boards, by cyclic voltammetry, 11B28**
- detmn. of ammonia in, by cyclic voltammetry, 8B30
 - detmn. of iron in, photometric, 3B90
- , **gold, detmn. of gold in, by XRF, 11B30**
- , **nickel, detmn. of copper in, by spectrophotometry, 4B178**
- detmn. of iron in, photometric, 3B90
 - detmn. of phosphinate and phosphonate in, by n.m.r., 3B104
 - detmn. of silver, gold, palladium, rhodium and platinum in, by spectrography, 10B162
- , **rhodium, detmn. of rhodium in, by coulometry, 1B140**
- , **silver, analysis of, by potentiometric titrimetry, 3B36**
- , **zinc, detmn. of aluminium in, by polarography, 5B66**
- detmn. of chromium in, by spectrophotometry, 2B67

Electroplating solutions, zinc,—continued

- detmn. of zinc oxide and boric acid in ammonium chloride-based, 1B37
- Elements**, detmn. of light, by X-ray-source Raman spectrometry, 7B18
- detmn. of non-metallic, kinetic, review, 6B1
- Embutramide**, detmn. of, in biological materials, by t.l.c. and spectrophotometry, 8D99
- Emetine**, detmn. of, in biological fluids, by h.p.l.c., 11D43
- Emodin**, detmn. of, in moulds used in production of pectolytic enzymes, by t.l.c., 10F6
- Emulgen 911**, sepn. of, from microsomes, by h.p.l.c., 3D172
- Emulsifiers**, detmn. of, in foods, by spectrophotometry, 5F8
- detmn. of sucrose ester, by g.l.c., 2F10
- for food, study of stability of, by n.m.r., 5F1
- identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
- identn. of cyclic acetals in, by m.s., 2C11
- Emulsions**, detmn. of anionic surfactants in, by ion-exchange - titration, 5C86
- Enamels**, detmn. of cadmium in, by spectrophotometry with 1-(2-pyridylazo)-2-naphthol and surfactant, 6C63
- Enantiomers**, sepn. of, by t.l.c. on chiral adsorbent, 1C2
- Endive**, detmn. of vitamins in, 12F26
- β-Endorphin**, detmn. of, by h.p.l.c. with electrochemical detection, 3D165
- in cerebrospinal fluid, by r.i.a., effect of contrast medium on, 9D196
- sepn. of, by t.l.c., 6D229
- sepn. of peptides related to, by liquid chromatography, 9D195
- Endorphins**, detection of, immunological, review, 11D185
- sepn. of, by electrophoresis, 5D186
- by h.p.l.c. with electrochemical detection, 10D178
- Endosulfan**, detmn. of isomers of, in insecticides, by g.l.c., 2G23
- Endotoxin**, detmn. of, in plasma, by spectrophotometry, 6D245
- Endrin**, detmn. of, by t.l.c., 2G17
- in sewage sludge, by g.c., 6H103
- Enflurane**, detmn. of, in air of operating theatres, by g.c., 4H10
- Enkephalin, leucine-**, detmn. of, by h.p.l.c., 3D155
- by h.p.l.c. and m.s., 11A2B
- in tissues, by m.s., 1D149
- identn. of, by m.s., 4D233
- sepn. of, by h.p.l.c. with electrochemical detection, 10D178
- , **methionine-**, sepn. of, by h.p.l.c. with electrochemical detection, 10D178
- Enkephalins**, detection of, immunological, review, 11D185
- detmn. of, by h.p.l.c. with electrochemical detection, 3D165
- by r.i.a., 2D188
- sepn. of, by h.p.l.c., 3D156
- by h.p.l.c. on "end-capped" octylsilica, 7D180
- by t.l.c., 6D229
- Enolase**, assay of, in serum and cerebrospinal fluid, bioluminescent, 7D255
- assay of isoenzymes of, in plasma, by immunobioluminescence, 10D261
- detmn. of β-subunit of, in serum, by immunoassay, 1D229
- Enterobactin**, detmn. of, in micro-organisms, colorimetric, 3D131
- Enteroglucagon**, detmn. of, in plasma, by r.i.a., 8D181
- Enteropeptidase**, assay of, prevention of auto-activation in, 6D313
- Enthalpimetry**, flow-injection apparatus for, 8J11
- Environmental analysis**, by a.a.s., review, 8H1
- by g.c. - m.s., automated mass spectra retrieval system for, 12J117
- automated spectral retrieval system for, 12J119
- review, 8H2, 8H3
- by laser fluorimetry, review, 11J98
- by tube-excited energy-dispersive XRF, 11J77
- detection of atoms and radicals in the gas phase in, review, 9H1
- detection of toxic organic compounds in, monitor for continuous, 12H8
- detmn. of hydrogen sulphide in, review, 12H27
- for assessment of exposure to pollution, review, 9H2
- minimization of error in trace, 12H2
- n.a.a. in, 12H3
- narrow-bore capillary columns for g.c. in, 12J59
- PIXE in trace-element, 11D13
- scanning electron microscopy in, review, 11H1
- small-scale piston-filter device for, 11J7
- three-dimensional mass chromatography in, 12J118
- Environmental materials**, analysis of, 4H1
- by atomic spectrometry, 6H1
- by capillary g.c., isolation and concentration techniques for, 6J60
- by derivative spectrophotometry, 1H2
- by g.c., multiple internal standards in, 6H2
- by g.l.c., microcomputer in data evaluation in, 4J81
- by h.p.l.c., detection in, review, 1J32
- by liquid chromatography on carbon black, liquid modifiers in, 6J36
- by m.s., computerized library search system for, 8A22
- by polarography and voltammetry, 2H1
- by XRF, review, 9H11
- g.c. systems for, 4J55
- limits of detection and detmn. in, 4A12
- radionuclides in, review, 4A4
- review, 5A1B
- collection and storage of, 12H6
- concentration of trace organic compounds in, by liquid chromatography, review, 4C2

Environmental materials—continued

- detection of asbestos in, by microscopy, 1B157
- detmn. of ammonium ion in, by a.a.s., 1B82
- detmn. of arsenic in, by a.a.s., 12H5
- by anodic-stripping voltammetry, 5B170
- detmn. of camphchlor residues in, review, 7H5
- detmn. of chloride, nitrate, sulphate and sulphur in, by single-column ion chromatography, 2H49
- detmn. of chlorinated aromatic compounds in, by g.l.c., 5H3
- detmn. of chlorodibenzo-*p*-dioxins and chlorodibenzofurans in, 9A5B
- detmn. of cobalt in, by voltammetry and polarography, review, 3B100
- detmn. of contaminants in, by m.s., review, 7J98
- detmn. of cyanide and phenols in, 9H3
- detmn. of dyes, pigments and PCB in, for ecological and toxicological assessment, review, 11H2
- detmn. of europium and samarium in, by fluorimetry, 5B100
- detmn. of gallium in, by a.a.s., 7H4
- detmn. of glycerol in, by g.l.c., for estimation of microbial material, 7H64
- detmn. of halogenated organic compounds in, by g.c. with conductivity detection, 12H105
- detmn. of heavy metals in, by XRF after concentration, 11B6
- detmn. of hydrocarbons and organochlorine compounds in, 6H80
- detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126
- detmn. of krypton-85 in, by proportional and liquid scintillation counting, 4H3
- by γ-ray spectrometry, 4H16
- detmn. of long-lived radionuclides in, 5H2
- detmn. of mercury in, by ICP a.e.s., 10B52
- sample digestion in, 12D31
- detmn. of metals in, by ICP a.e.s., 12H45
- detmn. of mycotoxins in, 5H98B
- detmn. of organotin compounds in, fluorimetric, 5C39
- detmn. of PAH in, by g.c., 3H1
- by h.p.l.c., 11H68
- detmn. of PCB in, by g.c. - m.s. with limited-mass scan, 9H76
- detmn. of pesticides and PCB in, by g.c. - m.s., 4H5
- detmn. of phenolic pesticides in, by g.l.c. as pentafluorobenzyl derivatives, 2H3
- detmn. of phosphate, polyphosphates and soluble silicate in, spectrophotometric, 12H7
- detmn. of plutonium-241 in, by liquid scintillation spectrometry, 5H87
- detmn. of polychlorinated dibenzodioxins and polychlorinated dibenzofurans in, review, 4H4
- detmn. of polychlorinated dioxins and furans in, by isomer-specific techniques, review, 11H3
- detmn. of radioactive caesium in marine, by γ-ray spectrometry, 9H41
- detmn. of selenium in, 4H2
- detmn. of toxins in, review, 7H1
- detmn. of trace organic pollutants in, 9A6B
- detmn. of transuranium elements in, α-spectrometric, ionization chamber for, 9J120
- detmn. of tritium in, by freeze-drying, apparatus for, 2H2
- detmn. of zinc, cadmium, lead, copper, nickel and cobalt in, by voltammetry, 12D24
- detmn. of zinc and other trace elements in, by flow-injection a.a.s., 1D19
- extraction of pesticides from, by steam-distillation, 10G18
- speciation of metals in, by flow-injection analysis, 12J13
- Enzyme immunoassay**, apparatus for, 10J9
- data processing in, computer program for, 10D4
- electrochemical detection in, review, 11D4
- ELISA, a.a.s. plate reader for, 4F31
- interferences in, 5D6
- EMIT, detmn. of drugs in serum by, stability of calibration graph in, 4D71
- EMIT drug reagents in, with centrifugal analyser, 9D38
- enzymic labelling of antibodies for, review, 7D4
- in clinical analysis, 4D3
- indirect immunoperoxidase methods of, efficiency and sensitivity of, 4D261
- microcomputer - spectrophotometer interface for, 1J18
- modulator-mediated, review, 6D4
- optical-fibre-probe colorimeter for, 6D12
- peroxidase and active peroxidase - antibody conjugates for, 9D250
- prep. of solid support for, 12D195
- review, 6D1, 11D3, 12D2
- Enzymes**, assay of, after release from supports, radiometric, 7D235
- by derivatization - g.c., review, 9J55
- by h.p.l.c., review, 11D155
- in activated sludge, by methylene blue reduction, 9H87
- in serum, by inhibitor-binding assay, 12D237
- in sodium dodecyl sulphate - polyacrylamide gels, 8D238
- in tissues, automated, 10D11
- standards for, 5D237
- washing of ion-exchange-paper discs in radiochemical, 9D266
- assay of NADP-requiring, fluorescent reagent for, 5D232
- assay of pectinolytic, blue pectin as substrate in, 11D252
- detection of, by isoelectric focusing or electrophoresis, visualization method for, 9D245

Enzymes—continued

- detection of iso-, by h.p.l.c., post-column reaction for, review, 3D247
 detection of thiol-forming-reaction-catalysing, by polyacrylamide gel electrophoresis, activity stain for, 5D247
 immobilized, in reactors, dispersive analysis of, by flow-through microfluorimetry, 1J16
 immobilized bioluminescent, applications of, review, 4D1
 immunoassay of, review, 5D231
 isoelectric focusing of, errors in, 11D186
 microbial, as diagnostic reagents, 4D2
 sepn. of, by electrophoresis, replicas of silver-stained gels in, 3J40
 by hydrophobic chromatography, adsorbent for, 11D228
 by ion-exchange chromatography on Cibacron blue 3G-A - Sepharose, 9J39
 sepn. of cellulolytic, by ion-exchange chromatography, 3D276
Enzymic analysis, kinetic methods for, 7D5
 prep. of immobilized enzymes for, 12D224
Ephedra, detmn. of alkaloids of, by h.p.l.c., 5E10
Ephedrine, detmn. of, by i.r. spectrometry, 6E13
 in cocaine, by h.p.l.c., 8E12
 in pharmaceutical preparations, by g.l.c., 8E3
 by h.p.l.c., 5E10
 in tablets, by spectrophotometry or a.a.s. after complex formation, 5E11
 in urine, by g.l.c., 8D58
 by g.l.c. - e.c.d., 2D49
 detmn. of isomers of, in plasma, by r.i.a., 1D42
 extraction of, from urine, Sep-Pak C₁₈ in, 4D110
 sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
 sepn. of enantiomers of, by h.p.l.c., 12E46
Ephedrine hydrochloride, detmn. of, by ion-pair extraction - titrimetry, 8E7
 detmn. of isomers of, by optical rotation, 8E15
 (-)-**Epicatechin**, detmn. of, in cocoa beans, by h.p.l.c., 1G4
Epitestosterone, detmn. of, in urine, by t.l.c., 6D192
EPN, detmn. of, in waters, by g.c., pre-concentration technique for, 4H78
EPTC, detmn. of, in air, by t.l.c., 11H29
Erbium, detmn. of, 2-acetylidenedone in spectrophotometric, 12B69
 by spectrophotometry, 3B50
 chlorophosphonazo-mN in spectrophotometric, 5B87
 sepn. of, from other heavy lanthanoids, by ion-exchange chromatography, 10B66
Erbium oxide, sepn. of thulium from, by ion exchange, 5B103
Ergocalciferol, detmn. of, in fortified milk, by h.p.l.c., 10F39
 in multivitamin tablets, by h.p.l.c., 2E23
 in skimmed milk powder, by h.p.l.c., 10F42
 —, **1,25-dihydroxy-**, detmn. of, in serum, by r.i.a., 12D220
 —, **25-hydroxy-**, detmn. of, in serum, by protein-binding assay, 12D220
Ergocornine, dihydro-, detmn. of, in plasma, by r.i.a., 10D55
Ergocristine, dihydro-, detmn. of, in plasma, by r.i.a., 10D55
Ergocryptine, dihydro-, detmn. of, in plasma, by r.i.a., 10D55
Ergometrine, detmn. of, in pharmaceutical preparations, by h.p.l.c., 9E8
 in pharmaceuticals, by h.p.l.c., 5E9
Ergosterol, detmn. of, in brewers' yeast, by h.p.l.c., 10F62
Ergotamine, detmn. of, by t.l.c., 11E5
 in formulations, by h.p.l.c. with post-column reaction detection, 4E12
 —, **dihydro-**, detmn. of, in tablets, by h.p.l.c., 9E7
Erucic acid, identn. of ozonolysis products of, by g.c. - m.s., 5C25
Erythrocytes, analysis of, from pregnant women, PIXE in elementary, 12D17
 assay of glucose-6-phosphate dehydrogenase in, with centrifugal analyser, 10D249
 assay of L-iditol dehydrogenase in, by fluorimetry, 6D292
 assay of lactate dehydrogenase isoenzymes in, 6D295
 assay of peroxidase in, interference in guaiacol test for, 12D226
 assay of transketolase in, 12D230
 detmn. of α - and γ -tocopherol in, by h.p.l.c., 4D293
 detmn. of ATP, 2,3-diphosphoglycerate, glucose and lactate in, centrifugal analyser in, 4D20
 detmn. of calcium and magnesium in ghosts of, by spectrophotometry in presence of arsenazo III, 4D34
 detmn. of calcium and other trace elements in, by ICP a.e.s., 5D19
 detmn. of cholesterol sulphate in, by g.c., 1D110
 detmn. of choline in, by n.m.r., 10D163
 detmn. of folate in, by radioassay, 3D243
 detmn. of glucitol in, by capillary g.l.c., 2D131
 detmn. of glutathione in, by h.p.l.c., reagent for post-column derivatization in, 11D116
 by polarography, 5D189
 detmn. of glyceraldehyde-phosphate dehydrogenase in, 4D304
 detmn. of glycosylated haemoglobin in, by affinity and ion-exchange chromatography, 10D228
 by affinity chromatography, 10D229
 detmn. of hydrocortisone in, by r.i.a., 6D193
 detmn. of hypoxanthine in, by h.p.l.c., 11D220
 detmn. of lipid peroxidation in, errors in spectrophotometric, 10D135
 detmn. of lipids in, by t.l.c. - densitometry, 4D170
 detmn. of polyamines in, by g.l.c., 6D202
 detmn. of stable glycosylated haemoglobin in, by micro-column chromatography, 4D275

Erythrocytes—continued

- detmn. of sugars in, by h.p.l.c., 12D114
 detmn. of tocopherol isomers, α -tocopherylquinone and cholesterol in, by h.p.l.c., 11D222
 detmn. of zinc in, by a.a.s., 2D22
 sepn. of, from other blood cells, by h.p.l.c., 4D11
Erythromycin, detmn. of, in biological fluids, by h.p.l.c., 5D56
 in serum, by h.p.l.c., 11D54
Erythromycin A, detmn. of, in fermentation broth, by h.p.l.c., 5E24
Erythromycin B, detmn. of, in fermentation broth, by h.p.l.c., 5E24
Escherichia coli, assay of protease of, effect of penicillin on, 11D250
 detmn. of glutathione in, by h.p.l.c., reagent for post-column derivatization in, 11D116
Esculetin, detmn. of, in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
Esculotide, detmn. of, enzyme electrode for, 11D122
 in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
Essential oils, analysis of thermal decomposition products of, in g.l.c., titrimetric, 6J99
 detmn. of, in complexes with cyclodextrin, by g.l.c., 8C71
 in plants, by head-space g.c., 4D144
 by micro-distillation - g.l.c., 6C47
 detmn. of terpenes in volatile, by h.p.l.c., 1E5
 identn. of anetholes in, by m.s., 5C89
 identn. of monoterpenes in, by g.c., 10C65
 sepn. of unsaturated compounds from, by complexation with mercurous acetate, 2C57
Esterases, assay of pyrethroid-hydrolysing, substrates for, 3D267
Esters, detection of, in air at hazardous-waste sites, sampler for, 5H6
 detmn. of, chemisorbed on Fischer - Tropsh catalysts, 6B180
 in acetic acid, by head-space g.c., 8C17
 in Fischer - Tropsh products, by g.l.c. and liquid chromatography, 8C7
 in liquid carbon dioxide aerosols, by h.p.l.c., 10C5
 in mixtures of organic compounds, by g.l.c., 7C9
 in urban air, by g.c., 6H27
 —, **aliphatic**, detmn. of, by h.p.l.c., u.v.-absorbing species in, 12C11
 sepn. of, by g.l.c., 8C19
 —, **alkyl**, detmn. of, in suntan preparations, by h.p.l.c. and g.l.c., 1C31
 —, **isobutyl**, detmn. of, by g.l.c., 4C41
 —, **methyl**, detmn. of, in complex mixtures, by g.c., 6C40
 identn. of, by chemical-ization m.s., 12F43
Etolides, detmn. of, of *Sapium sebiferum*, by h.p.l.c., 2F44
Estragole derivatives, identn. of, in foods, by natural-abundance deuterium n.m.r., 7F78
Etching solution, analysis of, by titrimetry, gravimetry, potentiometry and photometry, 4B3
Ethacrynic acid, detmn. of, in pharmaceuticals, reagents for indirect titrimetric, 11E48
Ethalfuralin, detmn. of, in waters or biological materials, by differential pulse polarography, 11G31
Ethambutol, detmn. of, in pharmaceutical preparations and biological fluids, by ion-pair extraction - spectrophotometry, 4E58
 review, 11E46
Ethane, chloro-, detmn. of, by g.c., 7C13
 —, **dibromo-**, detmn. of, in air, by g.c., portable system in, 2H24
 —, **1,2-dichloro-**, detmn. of, in turmeric, by steam-distillation - g.c., 11C59
 —, **1,2-dichloro-1,1,2-trifluoro-**, i.r. spectrum of deuterated, 9C92
 —, **1,1,1-trichloro-**, detmn. of, in air, by g.l.c., 3H17
 grab-sampling technique for, 12H34, 12H35
 in water, by g.l.c., 10H73
Ethanediol, detmn. of, and its oxidation products, in biological materials, by colorimetry and t.l.c., 9D104
 in biological materials, 6D137
 by oxidation - reduction - g.c., 10D116
 in blood and urine, by g.c., 6D138
 purification of, 5C18
 sepn. of monomer, dimer and trimer of, by capillary g.c., 5J55
 —, **dihydroxyphenyl-**, detmn. of, in plasma, radio-enzymic, 9D158
 —, **3,4-dihydroxyphenyl-**, detmn. of, in plasma, deconjugation for, 10D155
 in rat-brain, by h.p.l.c., effect of sample storage on, 11D159
 in urine, by g.l.c., 6D204
 in vas deferens, by h.p.l.c., 2D167
 —, **4-hydroxy-3-methoxyphenyl-**, detmn. of, in cerebrospinal fluid, by h.p.l.c., 2D135, 7D161
 by h.p.l.c. and g.c. - m.s., 5D167
 in plasma, by h.p.l.c. with e.c.d., 3D99
 in plasma and urine, by h.p.l.c., 11D157
 in urine, by g.l.c., 3D106, 6D204
 by h.p.l.c. with e.c.d., 8D150
 by liquid chromatography, 1D93
 in vas deferens, by h.p.l.c., 2D167
 —, —, **sulphate**, detmn. of, in brain, by h.p.l.c., 11D158
 —, **3-methoxy-4-sulphonyloxyphenyl-**, detmn. of, in urine, by g.l.c., 9D157
Ethanediol dinitrate, sampling of, in air, sorbents for, 2H30
Ethanol, detection of, microbial electrodes in amperometric and potentiometric, review, 1J101

Ethanol—continued

- detmn. of, enzyme electrode and thermistor probe for, 7J132
in alcoholic and non-alcoholic beverages by g.l.c., 4F62
in aq. soln., enzyme-immobilized oxygen electrode in, 5J178
in beer, bio-electrochemical, 7F86
by direct g.c., 10F63
on-line system for, 9F47
oxidase electrode in flow-injection, 6F76
in biological fluids, by g.c., in study of blood alcohol content, 11D109
in blood, by EMIT-st assay, errors in, 12D105
by head-space g.l.c. and densitometry, standards for, 7D99
effect of long-term storage on, 11D108
effect of storage on, 6D134
liver and cells, by spectrophotometry and enzymic reaction, 4D137
photometric, 11D107
in blood and bile, by g.c., 4D136
in blood and faeces, by g.l.c., 2D116
in breath, interference by acetone in, 5D106
in carbon dioxide, by g.c., calibration in, 12B81
in foods and beverages, amperometric, 2F4
in gasoline - alcohol mixtures, by liquid chromatography, 10C56
in plasma, by g.l.c., 5D64
in presence of methanol, by redox spectrophotometry, 2C8
in serum, spectrophotometric, 9D102
in wine, by g.l.c., 4F73
with enzyme electrode, 11F33
on immobilized bioluminescent enzymes, by photographic detection of light emission, 9D12
detmn. of water in, by enthalpimetry, 7C16
by g.l.c., 2C9
by hygrometry, 12C13
—, **2-amino-**, detmn. of, in wine, by h.p.l.c., 5F52
radiometric, via complexation with zinc-65, 11C12
—, **2-(ethylthio)-**, detmn. of, by reversed-phase h.p.l.c., 9C93
—, **2-(1-imidazolyl)-2-(2-naphthyl)-**, detmn. of, in plasma and saliva, by h.p.l.c., 2D68
—, **2,2'-iminodi-**, analysis of degraded soln. of, by g.c., 3C45
—, **2,2'-iminonitrosodi-**, detmn. of, in cosmetics, by chemiluminescence, 4C75
—, **2-(5-methoxyindol-3-yl)-**, detmn. of, in plasma and pineal glands, by r.i.a., 9D165
—, **2,2',2''-nitrilotris-**, titration of, coulometric generation of protons in, 4C25
—, **dodecyl sulphate**, detmn. of, in antiseborrhoeic shampoo, 4E61
Ethanolamines, h.p.l.c. and t.l.c. of, 7C28
Ethchlorvynol, detmn. of, in capsules, by n.m.r., 6E36
Ethephon, detmn. of, in tomatoes, by g.l.c., 2F37
Ether, **t-butyl methyl**, detmn. of, in gasoline, by g.c. with i.r. detection, 11C37
Ether-oxygen, detmn. of, in coal, by n.m.r., 11C47
Ethers, detection of, basic dyes for, 6C3
detmn. of, by g.c. with direct aq. injection, 10C2
by h.p.l.c. - post-column reaction - fluorimetry, 7C10
in gasoline, by h.p.l.c., 9C51
detmn. of cyclic, by chromatography, calculation of retention vol. in, 4C39
—, **alkyl phenyl**, detmn. of, by g.l.c., 9C26
—, **diphenyl chloro-**, detmn. of, by g.c. - m.s., 5C41
Ethion, detmn. of, indirect, by chemical-ionization m.s., 7J101
Ethionamide, detmn. of, by ammonia-gas-sensing electrode, after acid hydrolysis, 4E57
in pharmaceutical preparations and biological fluids, by ion-pair extraction - spectrophotometry, 4E58
review, 11E46
Ethisterone, detmn. of, in dosage forms, in presence of ethinyloestradiol, by h.p.l.c. with u.v. detection, 8E86
Ethioheptazine, detmn. of, in tissue and plasma, by g.l.c., 6D85
Ethonium chloride, detmn. of, in pharmaceutical preparations, 3E50
Ethopabate, detmn. of, in chicken and eggs, by h.p.l.c., 11F17
in chicken muscle, by liquid - liquid partition h.p.l.c., 8F27
Ethophyllidine, detection of, by t.l.c., in study of stability of oxyethyl-theophylline soln., 8E17
Ethosuximide, detmn. of, in biological fluids, by h.p.l.c., 5D60
in plasma, 6D77
by h.p.l.c., 12D74
in serum, by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
by fluoro-immunoassay, 2D66
by h.p.l.c., 8D45
by liquid chromatography, 7D58
Ethoxyquin, detmn. of, in animal fats, by h.p.l.c., 7F93
in apples, by g.l.c., 4F56
by h.p.l.c., 8G3
in fish meal, by h.p.l.c., 7G23
in fish meal and fats, by h.p.l.c., 6G24
in milk, by h.p.l.c., 4F41
in waste water, by h.p.l.c., 9H88
Ethylamine, detmn. of, in tea shoots and made tea, by h.p.l.c., 6F69
—, **phenyl-**, detmn. of, in wine, by h.p.l.c., 5F52
Ethyldiphenacetate, sepn. of, by ion-pair h.p.l.c., 12E37
Ethylene, analysis of oligomers of, by m.s., 8C82
detmn. of, in fermentation gases, by g.s.c., 8D103
in gases, semiconductor sensors for, 4J7
—, **tetrachloro-**, detmn. of, and its metabolites, in biological fluids, by g.l.c., 6D139
in drinking water, xylene as extractant for, 7H61
in water, by g.l.c., 10H73
identn. of perchloro-aromatic compounds in waste products from production of, 10C84
—, **trichloro-**, detmn. of, and its metabolites, in biological fluids, by g.l.c., 6D139
by capillary g.c., 9J64
in drinking water, xylene as extractant for, 7H61
in edible oils, by head-space g.l.c., 4F79
in water, by g.l.c., 10H73
by head-space g.c., 5J56
Ethylenediamine, detmn. of, by g.l.c., 12E62
in laboratory rat diet, by h.p.l.c., 7G20
in work-room air, sampling for, 10H34
—, **N-ethyl-**, detmn. of, by g.l.c., 12E62
Etoconazole, detmn. of, in plants, soil and waters, by g.c., 1G13
Etofylline, detection of, by t.l.c., in study of stability of oxyethyltheophylline soln., 8E17
Etomidate, detmn. of, in plasma, by h.p.l.c., 8D59
Etoposide, detmn. of, and its metabolites, in biological fluids, by h.p.l.c. with electrochemical detection, 9D98
by h.p.l.c., 11E47
in blood and urine, by h.p.l.c., 4D128
in urine, by reversed-phase h.p.l.c., 8J29
Etretinate, detmn. of, with main metabolite, in blood plasma, by h.p.l.c., 4D290
Eucalyptus, analysis of compounds emitted from, by g.c., dryer for gaseous samples in, 5J51
identn. of monoterpenes and hydrocarbons in, by g.c. - m.s., 3C60
Eugenol, detmn. of, in clove oil, by n.m.r., 1E11
Euphorbiaceae, detmn. of phorbol esters and other diterpene esters in, by h.p.l.c., 8E26
Europium, detmn. of, *NN*-bis-(8-hydroxyquinolin-2-yl)methylamine in luminescence, 6B78
by a.s.s., intra-cavity laser apparatus for, 7B59
by X-ray spectroscopy, 11B44
in barium magnesium aluminate, by emission spectrography, 5B288
in biological or environmental materials, by fluorimetry, 5B100
in presence of samarium, by spectrophotometry, 5B101
in uraniferous rock, by n.a.a., 10B61
in uranium hexafluoride, spectrographic, 12B76
extraction of, as β -diketonates, 1B63
by 2-thenoyltrifluoroacetone - linear polyether mixture, 1B62
from carbonate soln., alkylcatechol in, 5B126
in eutectic mixtures, synergic, 3B57
sepn. of, by solvent extraction, crown ethers in, 2B40
from americium, by extraction - chromatography, 10B76
from other radio-tracers, by paper chromatography, 4B21
sepn. of radiotracers of, by h.p.l.c., 10B19
sorption of ionic and colloidal, on silica gel, 10B65
Europium complexes, with 2-thenoyltrifluoroacetone, detmn. of, by low-temperature luminescence, 6J141
Evening primrose oil, sepn. of fatty acids in, by g.l.c. and h.p.l.c., 3F32
Exhaust gases, detmn. of aldehydes in, colorimetric, 7H20
detmn. of benzo[a]pyrene in, by g.c. - m.s., 8H33
detmn. of carbon monoxide in, by laser-excited fluorescence, 11B69
detmn. of nitric oxide in, by chemiluminescence, correction factors for, 9H18
detmn. of organic and inorganic particulate pollutants in, 7H2
detmn. of PAH in, by g.c. and g.c. - m.s., cryogenic technique in, 4H44
detmn. of PAH in turbine, by g.l.c., 3H27
detmn. of sulphur dioxide and trioxide in, review, 10H28
sampling of PAH in, 4H45
—, **car-**, detection of bromine in, by g.c., microwave-induced plasma for, 9J61
detmn. of ammonia in, platinum catalyst in, 5H23
detmn. of 1-nitropyrene in, by g.l.c., 7H22
detmn. of phenols in, by g.l.c., 2C46
—, **diesel-engine**, analysis of particulate matter from, biological and chemical, 12H32
characterization of particulates in, on SH Chromarods, 12C46
characterization of polycyclic aromatic ketones in, by h.p.l.c. and g.c. - m.s., 5H33
detmn. of 1-nitropyrene in, by g.c. - m.s. and g.c., 2H28
detmn. of organic and elementary carbon and inorganic residues in, 11H14
detmn. of PAH in, by g.l.c., 12H38
sampling of PAH from, 9H31
Experiments, non-linear transformation of factors in design of, 5A24
Explosives, analysis of, by h.p.l.c. and t.l.c., 4C100
by h.p.l.c. - m.s., 3C72
detmn. of, by h.p.l.c. with detection by supported-mercury-drop electrode, 5J41
detmn. of aluminium in, by potentiometric titration, 11C79
detmn. of nitrogen in, 8C99

Explosives—continued

- identn. of, in debris, by h.p.l.c., 8C98
 identn. of residues of, in forensic analysis, by h.p.l.c. and t.l.c., 7C104
External D&C Yellow No. 7, detmn. of 2,4-dinitro-1-naphthol and 1-naphthol in, by h.p.l.c., 7F26
Extraction, concentration of elements by, 9B2
 for pre-treatment of samples, 1111
 in nuclear-reactor fuel reprocessing, tributyl phosphate in, effect of zirconium on, 12A5
 of aq. biological samples, with ether, apparatus for, 11J6
 of metals, for graphite-furnace a.a.s., 10B11
 from natural waters, macrocyclic compounds for, review, 1A4
 of organic compounds, from PTFE filters, 6H28
 of trace organic compounds, by steam-distillation, 6C1
 supercritical fluids in, review, 4J15
Eye, analysis of film on, 9D39
 detmn. of ophthalmic and norophthalmic acids in mammalian, by h.p.l.c., 9D194
 detmn. of α -tocopherol in rat, by g.c. - m.s., 10D244
Eye-drops, detmn. of naphazoline and tetrahydrozoline in, by h.p.l.c., 6E41
Eye lens, detmn. of *S*-(1,2-dicarboxyethyl)-glutathione and -L-cysteine in, by h.p.l.c., 12D174
 detmn. of sugars in, by h.p.l.c., 12D114

F

- Fabaceae**, detmn. of flavonoids in, 10D218
Factor XIII zymogen, detmn. of, in plasma, by colorimetry, 1D164
Faeces, assay of trypsin-like protease of, fluorimetric, 11D249
 detection of fatty acids, phenols and indoles in, by g.l.c., 3D91
 detmn. of alcohols in, by g.l.c., 2D116
 detmn. of anabolic steroids in bovine, by two-dimensional t.l.c., 7D96
 detmn. of bile acids in, by h.p.l.c., 6D200
 by t.l.c. - spectrofluorimetry, 5D158
 detmn. of calcium and chromium in, by plasma emission spectrometry, 12D22
 detmn. of 4-chloro-*o*-toluidine in, by h.p.l.c., 5D107
 detmn. of chromium in, by ICP a.e.s., 10D43
 detmn. of clioquinol in, by h.p.l.c., 2D100
 detmn. of ethinyloestradiol in, by r.i.a., 11D61
 detmn. of fluoride in, by g.l.c., 11D31
 detmn. of free and esterified 3 α -hydroxy-bile acids in, photometric, 9D148
 detmn. of haem and haemoglobin in, by fluorimetry, 7D211
 detmn. of hexoestrol in, by r.i.a., 3D72
 detmn. of methadone and its metabolites in, by direct-probe chemical-ionization m.s., 6D88
 detmn. of methylamines in, by g.l.c., 5D174
 detmn. of nitrate in, by g.c. with f.i.d. or thermal energy analyser, 8D29
 detmn. of occult blood in, by spectrophotometry, 7D11
 detmn. of odorous compounds in porcine, 8D10
 detmn. of phosphorus-33 in, by scintillation counting, 2D38
 detmn. of phytate in, by ion exchange, 2F5
 detmn. of porphyrins in, by magnetic circular dichroism, 10D221
 detmn. of steroids in, by r.i.a., review, 8F25
 detmn. of stilbene derivatives in, by r.i.a., interference from fluocortolone and dexamethasone in, 5D149
 detmn. of sulphasalazine and sodium azodisalicylate in, by h.p.l.c., 9D75
 detmn. of 3,3',4,4'-tetrachlorobiphenyl in rat, by g.l.c., 5D109
 detmn. of thiacezone in, by h.p.l.c., 4D126
 identn. of bile acids in, by g.c. - m.s., 3D125
Fats and fatty oils, analysis of, by g.c., on-column injection in, 6J71
 by hydrolysis - g.l.c., 11F36
 by t.l.c., 7J52
 analysis of lipids of, by high-resolution n.m.r., 10F68
 characterization of, by g.l.c., 6C33
 by saponification, hydroxyl, iodine and acid values, 10H92
 detection of pig and buffalo, in ghee, by differential scanning calorimetry, 2F31
 detmn. of, in chicken and turkey fat, 5F21
 in cream cheese, by i.r. spectrophotometry, 4J136
 in food, by n.m.r., 5F1
 extraction - gravimetric, 2F3
 in forage, precision and quality control of, 5G21
 in meat and meat products, i.r. spectrophotometric, 2F16
 in milk, by i.r. absorption spectrometry, automated analyser in, 10F40
 sampling bottles for, 6F40
 in milk powder, by diffuse-reflectance i.r. spectrophotometry, 2F28
 in milk-protein concentrates, reproducibility of, 5F30
 in pork and beef, by near-i.r. spectrophotometry, 1F10
 in vegetables, extraction methods for, 9F37
 in water, spectrophotometric, 8H94
 detmn. of aflatoxins in, by t.l.c., 4F76
 detmn. of *cis*- and *trans*-unsaturation of, by g.c. of epoxy-derivatives, 5F57
 detmn. of aniline and fatty acid anilides in, by spectrophotometry, 6F78

Fats and fatty oils—continued

- detmn. of antioxidants in, by t.l.c. or h.p.l.c., 8F12
 detmn. of carbonyl compounds in oxidized, by g.l.c. of trichloro-phenylhydrazones, 5F53
 detmn. of cyclopropanoid fatty acids in, of Malvaceae species, by g.l.c., 9D119
 detmn. of 2,6-di-*t*-butyl-*p*-cresol and butylated hydroxyanisole in, by g.l.c., 8F64
 detmn. of ethoxyquin in animal, by h.p.l.c., 7F93
 detmn. of free, in cream, by extraction and centrifugation, 6F53
 detmn. of glycerol in products of lysis of, by indirect polarography, 5F59
 detmn. of hexane and trichloroethylene in, by head-space g.l.c., 4F79
 detmn. of malonaldehyde and its precursor in autoxidized vegetable, by h.p.l.c., 9F53
 detmn. of malonaldehyde in chicken, prevention of autoxidation in, 6F37
 detmn. of *cis*,*cis*-methylene-interrupted polyunsaturated fatty acids in, enzymic, 8F63
 detmn. of α -methylstyrene in, by g.l.c., 6F22
 detmn. of mineral oil in, by t.l.c., 5F54
 detmn. of mineral oils in edible, by t.l.c., 10F66
 detmn. of nickel in hydrogenated, by h.p.l.c., 11F34
 detmn. of partial glycerides in, by g.l.c., 6F79
 detmn. of pesticide and PCB residues in, clean-up method for, 5F33
 detmn. of pesticides and phenols in, by g.c., 10D112
 detmn. of pesticides in beef, by Likens-Nickerson extraction - capillary g.c., 9G17
 detmn. of polar compounds in, IUPAC method for, 10F73
 detmn. of polyenoic fatty acids in, enzymic, 11F24
 detmn. of preservatives in, by h.p.l.c., 10F22
 detmn. of sterols in, by g.l.c., 4F77
 detmn. of tocopherols and sterols in, by capillary g.c., 3F34
 detmn. of tocopherols in, by h.p.l.c., 11C56
 detmn. of total, in human body, by neutron-capture gamma-ray analysis, 10D41
 detmn. of triglycerides in, by reversed-phase h.p.l.c. - m.s., 9F54
 detmn. of water in, by Karl Fischer method, 12F41
 enrichment of compounds migrating from packaging materials in, apparatus for, 10F67
 estimation of, in anhyd. milk fat, 6F43
 in biological materials, solvent extraction with ultrasonic agitation in, 4D4
 h.p.l.c. of, review, 10C51
 identn. of fatty acid esters in cooking, 8F65
 measurement of iodine value of acids from, flow-injection, 12C18
 sepn. of triglycerides in, by t.l.c., 4F78
Fatty acid amides, sepn. of long-chain, by g.l.c., 11F41
Fatty acid anilides, detmn. of, in cooking oil, by g.c., 2F46
 in edible oils, by spectrophotometry, 6F78
 in vegetable oil, by h.p.l.c. or g.c., 5F58
Fatty acid choline esters, C₁₆ to C₁₈, detmn. of, in fish toxins, by g.c. - m.s., 10D152
Fatty acid esters, chromatography of, derivatization for fluorescence detection in, 6D174
 identn. of, in cooking oils, 8F65
Fatty acid glyceryl triesters, detmn. of, in suntan preparations, by h.p.l.c. and g.l.c., 1C31
Fatty acid metal salts, detmn. of trace, by h.p.l.c. with fluorescence pre-labelling, 9D121
Fatty acid methyl ester, sepn. of, in safflower oil, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43
Fatty acids, analysis of, in human milk lipids, by g.l.c., 6D173
 chemical-ionization m.s. of, 2C22
 chromatography of, derivatization for fluorescence detection in, 6D174
 detection of, in algae, by g.c. - m.s., 3D107
 in faeces and saliva, by g.l.c., 3D91
 in vegetable oils, grasses and tobacco smoke, by g.l.c., 6J101
 detmn. of, by g.l.c., column for, 4J70
 by h.p.l.c., electrokinetic detector for, 4C18
 review, 3D111
 by h.p.l.c. with electrokinetic detection, 4C19
 by t.l.c., preparation of impregnated thin films for, 6J56
 enzymic - spectrophotometric, 7D124
 in *Athelia bicolor*, as methyl esters, by h.p.l.c. - g.l.c., 8D117
 in air, by g.c., pre-column for, 8H29
 by g.l.c., 3H23
 in anhyd. milk fat, by titrimetry, 6F44
 in anti-corrosion preparations, by potentiometric titrimetry, 1C42
 in butter, to predict rancidity, 7F66
 in butter fat, by g.l.c. after fractional crystallization, 4F45
 in cheese, by g.l.c., 4F44
 in chicken and turkey fat, 5F21
 in fat of *Theobroma bicolor*, by t.l.c. and g.c., 11F42
 in lake sediment, by h.p.l.c. and g.l.c., 9H72
 in lipids, by h.p.l.c., 1F21
 hydrolysis in, 3D115
 in milk, by ion exchange and g.l.c., 8F38
 in palm oil, maize oil, triolein and tripalmitin, by n.m.r., 2C55
 in rapeseed, by g.l.c., 5G3

Fatty acids, detmn. of,—continued

- in rat and mouse blood, enzymic, 8D116
in seeds, micro-method for, 4G5
in serum, by g.l.c., 3D102
by h.p.l.c., 9D126
by h.p.l.c. after derivatization with 9-aminophenanthrene, 9D118
in serum or cerebrospinal fluid, by t.l.c., 6D161
in vegetable oils, by g.l.c., 3F33
cis,cis-methylene-interrupted polyunsaturated, in fats and oils, enzymic, 8F63
detmn. of carboxy-groups of, by spectrophotometry, as anilides, 8C6
detmn. of condensates of amino-alcohols with, by t.l.c. - f.i.d. or t.l.c. - i.r., review, 8C68
detmn. of C₂ to C₃, by g.c., 4F16
detmn. of cyclopropanoid, in Malvaceae seed oils, by g.l.c., 9D119
detmn. of free, by spectrophotometry, 9D117
in cereal lipids, by h.p.l.c., 5G4
in plasma, 6D155
effect of valproic acid on enzymic, 1D99
in raw material for soap, by g.l.c., 4C73
detmn. of free and bound, by g.l.c., esterification, 6D171
detmn. of free C₄ to C₁₈, in milk products, by g.l.c., 10F36
detmn. of geometric and positional isomers of, in isomerized vegetable oils, by i.r. and u.v. spectrophotometry, 5F55
detmn. of isomers of, as methyl esters, by g.c., 10D127
detmn. of long-chain, in biological materials, by g.c., 7D118
detmn. of oxygenated, in plants and pond water, by extraction - h.p.l.c., 12D121
detmn. of polyenoic, in margarine and oil, enzymic, 11F24
detmn. of volatile, in serum, by g.l.c., 5D125
extraction of, from sea-water, by liquid chromatography, 3H59
identn. of, by chemical-ionization m.s., 12F43
in bovine tissue, by g.c., 1D104
in cocoa products, by g.l.c., 4F21
in mayonnaise and noodles, by g.l.c., as indication of egg content, 7F13
identn. of cyclopropane, by g.c. - m.s., 11D131
identn. of phenoxy, by m.s., differentiation from phenols, 7C23
identn. of unsaturated, in food, by m.s., review, 9F1
measurement of iodine value of, flow-injection, 12C18
monounsaturated, detmn. of position of unsaturation in, by mass-analysed ion-kinetic-energy m.s. - collision-induced dissociation, 6C10
sepn. of, by g.c. and h.p.l.c. of methyl esters, 10F72
in evening primrose oil and soya-bean oil, by g.l.c. and h.p.l.c., 3F32
in surfactants, by t.l.c., 12C52
sepn. of C₂₀ unsaturated, by h.p.l.c., 8D114
sepn. of cyclopropanoid, in oils of *Sterculia foetida* and *Hibiscus syriacus*, by h.p.l.c., 5D124
sepn. of free, by g.c., on silanized Polichrom A, 10J70
sepn. of methyl esters of, by t.l.c., 7J52
sepn. of 4-nitrobenzyl esters of, by h.p.l.c., 3J14
sepn. of stereoisomers of, in herbs and spices, by h.p.l.c., 4F61
—, **monohydroxy-**, detmn. of, in psoriatic skin, by g.c. - m.s., 11D126
Fatty acid salts, detmn. of, in lubricating greases, by i.r. spectrophotometry, 10C59
Fatty acyl-coenzyme A oxidase, assay of, in tissues, by fluorimetry, 3D255
Feeding-stuffs, analysis of, automated instrument for stopped-flow colorimetric, 8G7
by near-i.r. spectrophotometry, review, 11G17
by stable-isotope methods, review, 7F1
precision and quality control of, 5G21
review, 3G8
detection of fatty acids in, by g.l.c., 6J101
detection of trichothecene mycotoxins in, by g.l.c., 1G8
detmn. of acifluorfen-sodium in, by ion-pair reversed-phase h.p.l.c., 7G27
detmn. of aflatoxin B₁ in, by t.l.c. - h.p.l.c., 7G21
detmn. of aflatoxins in, 2G13
by t.l.c., 3G11
detmn. of antihistamines in, by h.p.l.c., 9G12
detmn. of antimicrobial drugs in, by t.l.c., 11G22
detmn. of arsenic in, by a.a.s. and spectrophotometry, 11G20
by spectrophotometry, 4G22
detmn. of bevantolol and hydrochlorothiazide in, by h.p.l.c. with u.v. detection, 12G5
detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
detmn. of carbarsone in turkey, by spectrophotometry, 3G12
detmn. of carotene in, by absorptiometry and colorimetry, 2G15
detmn. of chlorophacinone in, by t.l.c., 7G38
detmn. of choline and betaine in, by photometry, 2G16
detmn. of cinnamaldehyde in, by g.l.c., 4G26
detmn. of copper methioninate in, for pigs, by e.s.r., 11G21
detmn. of diazepam in, by h.p.l.c., 6G26
detmn. of dietary fibre in, gravimetric, 11G19
detmn. of ethylenediamine in, by h.p.l.c., 7G20
detmn. of halofuginone hydrobromide in, by h.p.l.c., 4G23
detmn. of 2-hydroxy-4-(methylthio)butyric acid in poultry, 1G9
detmn. of ipronidazole in, by g.l.c., 6G23

Feeding-stuffs—continued

- detmn. of moisture in, 6G18
detmn. of monensin sodium in, by t.l.c. and bioautography, 7G22
detmn. of nitrate in, by differential pulse polarography, 11H42
detmn. of nitrite in, by spectrophotometry or ion-selective electrode, 5G24
detmn. of nitrogen in, automated, 8C4
by Kjeldahl method with titanium white as catalyst, 1G7
detmn. of nitrosamines in nitrite-treated, by g.l.c., 4G25
detmn. of nitrovin in, by h.p.l.c. - spectrophotometry, 6G22
detmn. of ochratoxin A in, by t.l.c., 7G17
detmn. of protein in, trichloroacetic acid in Kjeldahl, 6G16
detmn. of retinol in, by h.p.l.c., 4G20
effect of distribution of coated vitamin particles on, 9G11
detmn. of retinol in pre-mixes and supplements for, 4G21
detmn. of ronidazole in, by h.p.l.c., 6G25
detmn. of skimmed-milk powder in, 6G20, 10A2B
detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.l.c. - m.s., 6F26
detmn. of trichothecene toxins in, by g.c. and high-performance t.l.c., 10F13
detmn. of T2 toxin in, by g.l.c., 6G21
detmn. of urea in, 5G23
by spectrophotometry, 3G9
detmn. of vitamin E compounds in, by h.p.l.c., 6G17
Feldspar, analysis of, microwave system for acid dissolution of samples in, 8B1
detmn. of cadmium in, by ICP a.e.s., 7B155
detmn. of calcium, iron and magnesium in, by a.a.s., 3B110
Felypressin, detmn. of, in local anaesthetics, by voltammetry, 8E42
Fencamfamin, detmn. of, in urine, by g.l.c. - e.c.d., 2D49
Fenchlorphos, detmn. of, by polarography, 2G26
Fenchone, sepn. of, from α -pinene, 3-carene and γ -terpinene, by g.c. - n.m.r., 8J65
Fenfluramine, detmn. of, in plasma, by g.l.c., 7D93
identn. of, in illicit preparations, microcrystalline, 12E6
Fenipentol, detmn. of, in pharmaceutical preparations, by g.c., 1E38
Fenitrothion, detmn. of, by g.l.c., 11G37
in aq. soln., by polarography, 5G30
in waters, by g.c., pre-concentration technique for, 4H78
Fenoprofen, detmn. of, in plasma, by h.p.l.c., 7D74
sepn. of isomers of, by h.p.l.c., 8E67
Fenoprop methyl ester, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
Fenpropanate, detmn. of, in fruit and vegetables, by g.l.c., 2F32
Fentanyll, detmn. of, in plasma, by r.i.a. or g.l.c. with f.i.d. or N - P detection, 8D50
sepn. of, from its homologues and analogues, by h.p.l.c., 10E22
Fenthion, detection of oxo-analogue of, by t.l.c., 4G38
Fentiazac, detmn. of, and its hydroxy-metabolite, in plasma, by h.p.l.c., 6D104
in dosage forms, by h.p.l.c., 3E30
in plasma, by g.l.c., 6D82
Fenvalerate, detmn. of, in air, by g.c. and t.l.c., 10H38
in fruit and vegetables, by g.l.c., 2F32
in tomatoes and leaves, by t.l.c., 2G24
review, 11G40
Ferbam, detmn. of, and its degradation products, in soil, by h.p.l.c., 10G22
by indirect voltammetry, 9B141
by spectrophotometry of evolved carbon disulphide, 4G37
Fermentation, analysis of by-products of, by g.c., review, 9F46
detmn. of hydrocarbons in gases from, by g.s.c., 8D103
Fermentation liquors, detmn. of α -amylase inactivator in, by continuous-flow spectrophotometry, 10D258
detmn. of lincomycins in, by h.p.l.c., 2E20
detmn. of penicillins in, by h.p.l.c., 7E11
Ferrate(III), **tetra-chloro-**, detmn. of, ion-selective electrode for, electroactive material for, 9J135
Ferricyanide, sepn. of, from ferrocyanide and thiocyanate, by ion exchange on hydrated tin^{IV} oxide, 10B143
 δ -Ferrite, detmn. of, in stainless steel, by second-step-potential etching current method, 12B148
Ferrites, detmn. of zinc in, by coulometric titration, 8B37
Ferritin, detmn. of, by r.i.a. and immunoradiometric assay, 1D158
in plasma and urine, by immunoassay, 1D154
in serum, by enzyme immunoassay, 10D212, 10D213
by immunoassay, 1D174
by r.i.a., improving accuracy of kits for, 9D214
enzyme-linked immunosorbent assay kit in, 6D257
inaccuracies in kits for, 10D209
detmn. of liver, in serum, by immunoradiometric assay, 3D203
two-site immunoradiometric, 8D203
extraction of, from polyacrylamide gels, electrophoretic, 10D187
sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
Ferrocene, detmn. of, by potentiometric titration with ferric-ion soln., 6C30
detmn. of iron in, by flameless a.a.s., 11C4
Ferrocenophanes, sepn. of, by t.l.c., 3C41
Ferrocyanide, detection of, by h.p.l.c., electrochemical detector for, 10J40

Ferrocyanide—continued

- detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 in presence of chloride, 6B141
 in silver-plating soln., by potentiometric titrimetry, 3B36
 sepn. of, from ferricyanide and thiocyanate, by ion exchange on hydrated tin^{IV} oxide, 10B143

Ferrosilicon, distribution of, in casting, by computerized autoradiography, 5J160**Fertilizers**, detmn. of acid-soluble potassium in, preparation of test soln. for, 6G15

- detmn. of aluminium in, by a.a.s., 2G7
 detmn. of calcium in, by a.a.s., 3G7
 detmn. of fluoride in, ion-selective electrode in, 4G10
 detmn. of iron in, by a.a.s., 2G9
 detmn. of nitrogen compounds in, 1G6
 detmn. of phenyl phosphorodiamidate in urea-based, by colorimetry, 5G12
 by t.l.c. and photometric methods, 5G18
 detmn. of potassium in, by flame photometry, 4G17
 by gravimetry, flame photometry or a.a.s., extractant for, 11G16
 detmn. of sodium in, by a.a.s., 4G16
 detmn. of sulphate in nitrate of lime and ammonia, by potentiometric titrimetry, 10G11
 detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60
 detmn. of uranium in, by a.a.s. with argon plasma, 2G8
 detmn. of urea in, by ebulliometry, 10G12
 detmn. of water-soluble potassium in, preparation of test soln. for, 6G14
 detmn. of zinc in, ion-selective electrode in, 4G15
 potassium polyphosphate, detmn. of copper, zinc, molybdenum, manganese and cobalt in, by a.c. polarography, 5G19
 study of homogeneity of, by statistical methods, 5G16

Ferulic acid, detmn. of, in beer and brewing materials, by extraction - h.p.l.c., 12F34

- in plasma, by h.p.l.c., 1D70
 in rapeseed flour, by g.l.c., 9G10
 detmn. of free, in plasma, by h.p.l.c., 7D48
 sepn. of, by h.p.l.c., 1G2
 sepn. of *cis*- and *trans*-isomers of, by h.p.l.c., 8C34
- Fibres**, analysis of, preparation of cross-sections in, 5C99
 concn. of trace elements on synthetic, 6B5
 counting of, in air, by transmission electron microscopy, 11H8
 detmn. of, in air, review, 11H6
 in sugar cane, 4A1B
 identn. of, by pyrolysis - g.c., 7C90
 in air, automated, review, 11H7
 identn. of polyester, by melting-point and refractive index, 1C35
 identn. of textile, 12C65

Fibrin-stabilizing Factor XIII_a, electrophoresis of, stains for, 1D164**Fibroblasts**, assay of biotinidase in, radiochemical, 8D245**Fibronectin**, detmn. of, in plasma, by enzyme immunoassay, 1D173**Ficin**, assay of, benzoyloxycarbonylphenylalanyl citrulline *p*-nitroanilide as substrate for, 10D256**Field-flow fractionation**, developments in, review, 5J18**hyperlayer**, 6J9**in biopolymer analysis**, 6J14**theory, methods and applications of**, review, 6J12**Films**, analysis of, electron micro-probe, 6J117**analysis of metallic**, by XRF, corrections for, 7B9**Filter-paper**, sepn. of hydrothermal degradation products of, by h.p.l.c., 11C61**Filters**, for fermentation samples, 4J6**for removal of suspended matter from water and waste water**, automated, 12H50**"hi-vol"**, glass fibre, effect of alkalinity on performance of, 11J8**measurement of pore-size index of**, 6J11**Filtration**, in sepn. of components of two-phase liquid dispersion, membrane technique for, 9J5**small-scale piston-filter device for**, 11J7**ultra-micro**, in monitoring drug levels in plasma or serum, review, 12D54**Finger-nails**, detmn. of arsenic in, by wet digestion - a.a.s., 5D31**detmn. of lead and nickel in**, by electrothermal a.a.s., 7D31**detmn. of methylamphetamine and amphetamine in**, by g.c. - m.s., 6D102**detmn. of trace elements in**, by PIXE, 11D12**Fingerprints**, latent, detection of, review, 1D1**Firearms**, detection of residue from discharge of, by scanning electron microscope, sampling in, review, 5D13**Fireclay**, analysis of, Japanese standard methods for, 12B84**Fire-proofing agents**, detmn. of, in chipboard, by t.l.c., 2C63**in chipboard by i.r. spectroscopy and X-ray diffraction**, 4C79**Fire-retardant materials**, flame-resistant finishes, detmn. of, on acrylic fabrics, by frustrated multiple-internal-reflection spectrometry, 5C98**Fire retardants**, detmn. of borate in, titrimetric, 7B52**detmn. of bromine released from**, ion-selective electrode in, 11C68**detmn. of toxic polybrominated impurities in**, by g.c. - m.s., 11C80**Fish**, detection of PAH in, by bio-assay, 4F34**detmn. of amines in**, by h.p.l.c., 7F14**Fish—continued**

- detmn. of ammonia and urea in, enzymic - spectrophotometric, 9F28
 detmn. of antimony in, by hydride-generation a.a.s., 11F1
 detmn. of arsenic in, by a.a.s., decomposition procedure for, 3D23
 detmn. of biogenic amines in, by h.p.l.c., 10F35
 detmn. of cadmium in, by a.a.s., acid-extraction in, 7D27
 detmn. of chlordan in, by g.c. and m.s., 5F25
 detmn. of chloronitrobenzene residues in river, by g.c. with e.c.d., 7F44
 detmn. of cyanide and phenols in, by spectrophotometry, 9H3
 detmn. of dichloromethyl methyl sulphone in, by g.c. - m.s. or m.s., 9D103
 detmn. of hydrogen peroxide in, oxygen electrode in, 5F27
 detmn. of hypoxanthine in, enzyme sensors in, review, 5D4
 enzymic, 1F13
 detmn. of ionic and alkyl-lead in, by g.c. - a.a.s., 10H52
 detmn. of iron, zinc, copper, manganese and chromium in canned, by a.a.s., 7F45
 detmn. of lead, cadmium and tin in canned, by a.a.s., 7F46
 detmn. of lead in canned, by a.a.s., elimination of interferences in, 10F33
 detmn. of mercury, cadmium and lead in river, by flameless a.a.s., 9F27
 detmn. of mercury in, by a.a.s., digestion for, 9F26
 by cold-vapour a.a.s., 5F26
 by gold amalgamation - gas-phase detection, 10D33
 detmn. of methylamines in, by g.c., 4F35
 detmn. of methylmercury in, by a.e.s., 5J94
 by g.l.c. with e.c.d., 4F33
 detmn. of nicotinic acid and nicotinamide in, by h.p.l.c., 3F15
 detmn. of nifurpirinol in, by h.p.l.c., 1F12
 detmn. of PCB in, by g.c., 1D73
 detmn. of pesticide and PCB residues in fats of, clean-up method for, 5F33
 detmn. of pesticide residues in, by g.c., 4F9
 by g.l.c., nitro-musk fragrances as contaminants in, 12G7
 detmn. of pesticides and PCB in, by g.l.c., 2F19
 detmn. of phosphorus in, by a.a.s. and AutoAnalyzer methods, 12B108
 detmn. of phthalates in marine, by g.c. - m.s., 11H65
 detmn. of polychlorinated dibenzodioxins and polychlorinated dibenzofurans in, review, 4H4
 detmn. of polychlorinated styrenes in, by g.c. - e.c.d. and g.c. - m.s., 6D136
 detmn. of selenium in, by a.a.s., 3D26
 detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.c., 7D102
 detmn. of tetracyclines in, by t.l.c., 1F11
 detmn. of volatile organic compounds in, by g.l.c., 4D139
 identn. of, by analysis of blood lysates by electrofocusing, 4D306
 identn. of geometric isomers of retinol and dehydroretinol in, by h.p.l.c., 12D217
 identn. of oxolinic acid and piromidic acid metabolites in, by h.p.l.c., 11D100
 identn. of species of, by electrophoresis, review, 8F31
 sepn. of amines in, chromatographic, 9D155
- Fish meal**, detmn. of ethoxyquin in, by h.p.l.c., 6G24, 7G23
- Fish oils**, detmn. of cadmium, lead and DDT copper in, by a.a.s., 7F5
 detmn. of DDT, DDE, TDE and DDT metabolites in, by g.l.c., 2G25
 detmn. of pesticides and their metabolites and PCB in, by g.l.c., 2F21
- Fish paste**, detmn. of dyes in, by extraction - t.l.c., 4F36
- Fish products**, detmn. of biogenic amines in, by h.p.l.c., 10F35
 detmn. of mercury in, ashing method for, 6F38
 by a.a.s., 6F39
 detmn. of methionine in, by g.l.c., 11F18
 detmn. of nitrate in, enzymic - spectrophotometric, 8F24
 detmn. of potassium bromate in, by ion exchange - colorimetry, 12F10
- Fish sauce**, detmn. of L-glutamic acid in, enzymic, 7F80
- Fish toxins**, detmn. of choline esters of C₁₆ to C₁₈ fatty acids in, by g.c. - m.s., 10D152
- Flavine-adenine dinucleotide**, detmn. of, in liver and bacteria, by luminescence, 3D233
 identn. of, in flavoproteins, by h.p.l.c., 4D282
- Flavine mononucleotide**, identn. of, in flavoproteins, by h.p.l.c., 4D282
- Flavine nucleotides**, identn. of, in flavoproteins, by h.p.l.c., 4D282
- Flavone derivatives**, sepn. of, by t.l.c., 9D222
- Flavonoid glycosides**, sepn. of, by h.p.l.c., 3F27
 by rotation local counter-current chromatography, 9J10
 by t.l.c., 9D222
 from *Dryas octopetala*, by h.p.l.c., 8E19
- Flavonoids**, detmn. of, in *Ononis spinosa*, by h.p.l.c., 7D203
 in hawthorn, by t.l.c., 6E18
 in propolis extracts, by h.p.l.c., 11C57
 in vegetation, 10D218
 of *Gentiana*, by h.p.l.c. with post-column derivatization, 9D220
 sepn. of, by h.p.l.c., optimization of, 10J19
- Flavonols**, detmn. of, in beer, by g.l.c., 9F48
 in silymarin-containing preparations, by h.p.l.c., 5E18
 sepn. of, in hops, by h.p.l.c., 3F27
- Flavoprotein-linked monooxygenase**, assay of, in biological tissues, by laser-excited fluorescence, 4D298
- Flavoproteins**, identn. of flavine nucleotides in, by h.p.l.c., 4D282
- Flavour compounds**, detmn. of, in saliva, by g.l.c., 7F22
 identn. of, in fried chicken, by g.c. - m.s., 6F36

- Flavour compounds**, identn. of.—*continued*
 in mushrooms, by g.c. - m.s., 6F64
 identn. of volatile, by g.c. - m.s., data bank for, 8F8
 of cherimoya, analysis of, by g.c. - FT i.r., 6F56
- Flecainide**, detmn. of, in plasma, by h.p.l.c. after bonded-phase column extraction, 10D102
- Flecainide acetate**, detmn. of, in plasma, by h.p.l.c., 8D74
- Flotation**, as pre-concentration technique, review, 2J4
- Flour**, detection of insect fragments in, colour test for, 10F26
 detmn. of aflatoxins in, by t.l.c., 3G11
 detmn. of α - and β -gliadins in, by r.i.a., 6F28
 detmn. of cadmium, copper and lead in, by a.a.s., 5G2
 detmn. of chromium in, by a.a.s., 2G1
 detmn. of deoxynivalenol in, by h.p.l.c., 10F11
 detmn. of dietary fibre in, 2F1
 detmn. of metals in, by a.a.s., 8F20
 detmn. of moisture in wheat, microwave, 7F34
 detmn. of nitrogen and moisture in, automated, 11G4
 detmn. of non-starch polysaccharides in rye, 6F12
 detmn. of phosphorus in, by spectrophotometry, 6D45
 detmn. of proline and hydroxyproline in, by ion exchange - spectrophotometry or - isotope dilution, 11F15
 detmn. of protein and moisture in and colour of white, by near-i.r. reflectance, 10F27
 detmn. of proteins in, by gel electrophoresis, 7G6
 by near-i.r. reflectance spectrometry, 3F13
 detmn. of tin in, by ICP a.e.s., 6B98
 detmn. of trace elements in reference standard of, by n.a.a., 9F4
 detmn. of uric acid in, by h.p.l.c., 6G4
- Flow analysis**, electrochemical detection in, review, 5J184
- Flow cytometry**, in single-cell analysis, review, 11D5
- Flow-injection analysis**, automated, viscometer for, 6J15, 6J16
 automation of, review, 6J23
 biosensors in, bi-layer lipid membranes in, review, 5J13
 chromium^{II} - EDTA as reducing agent in, 5A6
 combined u.v. and refractive-index detection in, 4B28
 computer applications in, 11J11
 cyclic or hydrodynamic voltammetry in, 5J12
 detection in, by ICP a.e.s., nebulizer for, 10J96
 detectors for, amperometric and coulometric, noise and drift in, 5J39
 electrochemical, with reticulated vitreous-carbon working electrode, 12J40
 potentiometric-sweep, 12C32
 development and applications of, review, 8J12
 development of, 4J13
 differential pulse voltammetric detection in, 5J10
 dispersion in unsegmented continuous-flow systems in, review, 5J14
 factorial design and Simplex optimization of, 7J9
 gas-permeation sepn. in, 7J10
 in detection of phenols, graphite - PTFE electrodes for, 6J42
 in detmn. of mercury, with a.f.s. detection, 6B63
 in detmn. of mercury in aq. soln., by a.a.s., 4B69
 in detmn. of nitrate and nitrite in water, apparatus for, 6H63
 in process control, review, 9J6
 optimization of, computerized, 5A42
 porous tubular electrodes with internal stirring in, 2J5
 quenched room-temp.-phosphorescence detection in, 5J11
 review, 3J8, 7J11, 10J11
 Simplex optimization in, 4A15
 simultaneous detmn. by, review, 10J12
 speciation of metals by, in environmental and biological materials, 12J13
 systems for, review, 6J19
 voltammetric detection in, 3J7
 with a.a.s. detection, effects of non-aqueous solvents in, 12J12
 review, 2J6
 with amperometric detection, effect of change in flow rate in, 12J11
 with anodic-stripping voltammetry, 10J148
 with rapid-scanning electrochemical detection at carbon electrodes, 5J36
 with voltammetric detection, background-current subtraction in, 11J9
- Flubendazole**, detmn. of, by fluorimetry, 5E50
- Flucytosine**, detmn. of, in plasma, by h.p.l.c., 10D106
- Flufenamate**, detmn. of, with ion-selective electrode, 1J110
- Flunitrazepam**, detmn. of, in ampoules and tablets, differential pulse polarographic, 3E26
 identn. of acid-hydrolysis products of, by t.l.c., h.p.l.c., m.s. and n.m.r., 9E32
- Fluopromazine**, detmn. of, spectrophotometric, 8E47
- Fluoracizine**, detmn. of, by g.l.c., 11E28
 by liquid chromatography, 6E40
- Fluoranthene**, detmn. of, in air, by laser-induced molecular fluorescence spectrometry, 2H27
 in river water, by t.l.c. with pre-concentration, 10H83
- Fluorazepam, N-1-desalkyl-**, sepn. of glucuronides of, in plasma, urine and bile, by h.p.l.c., 11D77
- Fluorene**, sepn. of, by g.l.c., polysiloxane stationary phases for, 4C43
 —, **nitro-**, sepn. of, by t.l.c., 2C34
- Fluoren-9-one, nitro-**, sepn. of, by t.l.c., 2C34
- Fluorescein**, detmn. of protein-bound, by phase-resolved fluorimetry, 10D202
- Fluorescein isothiocyanate**, detmn. of protein-bound, by phase-resolved fluorimetry, 10D202
- Fluorescence**, laser-excited, line narrowing in, 2C33
- Fluoride**, detmn. of, by direct potentiometry, 10B129
 by ion chromatography, 4B32
 by ion chromatography with electrochemical and conductometric detection, 7B104
 by ion-selective electrode, 1B108
 by photometric titration with zirconyl chloride, 10B128
 by potentiometric titration, electrodes for detection in, 8B102
 by reaction - g.c., 4B138
 by spectrophotometry, inhibition of oxidation of 2,4-diaminophenol in, 4C16
 by spectrophotometry after extraction, reagents for, 4B141
 in brine, ion-selective electrode in, 3H52
 in food, ion-selective electrode for, 3F3
 in gadolinium oxide and boron carbide, by ion-selective potentiometry, 7B64
 in geological samples, by ion chromatography, 6B137
 in organic extracts, by potentiometry after re-extraction, 4B140
 in plants, soil and waste water, 1H35
 in plasma and faeces, by g.l.c., 11D31
 in potable and natural water, by ion chromatography, 3H29
 in precipitation water, by ion chromatography, 12H42
 in quicklime, hydrated lime and calcium carbonate, 9B38
 in reduced alumina, by titrimetry - XRF, 1B107
 in sherry-type wine, by potentiometry, 12F38
 in sodium chloride, by ion exchange - direct potentiometry, 9B20
 in soil, fertilizer and zinc oxide, ion-selective electrode in, 4G10
 in urine, with ion-selective electrode, proposed Pharmacopoeial method for, 4D58
 in vegetable material, by direct potentiometry, 12D49
 in waste waters, by ion-exclusion h.p.l.c., 2H67
 in water, by its catalytic effect on zirconyl peroxide - xylene orange reaction, 9H61
 in water and effluents, by ion chromatography, automated, 12H43
 ion-selective electrode in, bipolar-pulse conductometric monitoring in continuous-flow system for, 3B42
 polishing of ion-selective electrode for, 7B106
 spectrophotometric, 12B100
 titrimetric, with aluminium electrode, 11J144
 with ion-selective electrode, effect of hydroxide ions on, 9B137
 detmn. of gaseous and particulate, ion-selective electrode in, 9H24
 detmn. of trace, kinetic - potentiometric, 6B138
- Fluorimetry**, biomedical applications of front-face, review, 9D223
 computerized fibre-optic instrument for, 12J103
 computerized laser instrument for, 5H93
 detmn. of halides by, sensors for, 12B129
 developments in, 11J99
 review, 10J100
 double resonance excitation in, by Raman scattering, 5J112
 enhancement of signals in, by molecular organization, review, 6J143
 estimation of sensitivity of instruments for, 5J109
 host matrices for laser-excited, of lanthanoid probe ions, 1J76
 in clinical analysis, 1D3
 in detection of oxygen, rapid-response sensor for, 9B111
 inner filter effects in, correction for, 5J111
 instruments for, computer-controlled, 6J113
 laser, review, 11J98
 laser-excited matrix-isolation, review, 11J100
 laser-induced, as sensitive detection method in liquid-phase systems, 8J95
 in flowing samples, 12J104
 micro-, in analysis of biological fluids, review, 12D3
 microprocessor-controlled, 1J75
 nitrogen-laser-pumped dye laser system for lifetime measurements in, 4J131
 of biological fluids *in vivo*, fibre-optical probe for, 8J96
 phase-resolved, in detmn. of protein-bound fluorescein species, 10D202
 picosecond laser instrument for, with automatic processing, 2J86
 portable multi-channel instrument for, 12J102
 rapid-scanning constant-energy synchronous, flow cells for, 10J101
 reduction of electronic noise in, 1J70
 remote fibre, review, 11J103
 room-temperature, zeroth- and second-order derivative, in identn. of aromatic hydroxy-compounds, 12C26
 segmentation in ring-oven, 9J105
 semi-micro cell for, with automated control of liquid level in, 8J94
 site-selection, review, 6J144
 supersonic jet, instrument for, 8J97
 synchronous, silicon-intensified target vidicon in, 3J82
 time-resolved, in detmn. of drugs in biological fluids, 6D53
 u.v. - visible, review, 12J84
- Fluorine**, depth profiling of, in solids, by proton activation, 12B23
 detection of, in air, by laser-induced breakdown emission spectrometry, 3H18
 detmn. of, by g.s.c., 4B139
 by α -particle-induced γ -ray emission, 5B10
 by scattering of combination X-ray lines, 8B7
 by X-ray-source Raman spectrometry, 7B18

- Fluorine**, detmn. of, —continued
 in biotite, by micro-probe, regression equations for, 10B173
 in ceramics, review, 7B156
 in fabrics treated with oil and water repellants, by decomposition - g.l.c., 8C79
 in geological materials, by α -particle bombardment - prompt γ -ray spectrometry, 9B175
 in near-surface regions, by proton-induced resonance reaction, 12B130
 in nuclear-reactor fuel, by n.a.a., 4B93
 in organic compounds, by ion chromatography after sodium fusion, 4C6
 with fluoride-selective electrode, 1C4
 in red mud, review, 1B47
 in tungsten prepared from tungsten hexafluoride, by proton activation - prompt γ -ray spectrometry, 9B135
 detmn. of trace, in milk, by molecular-absorption spectrophotometry, 9F31
- Fluorine compounds**, detmn. of, in air, calibration of apparatus for, 8H16
 detmn. of carbon and hydrogen in organic, elimination of interference in, 9C9
 detmn. of gaseous inorganic, reference methods for, 7H16
 detmn. of organic, in domestic refuse, by combustion and ion chromatography, 5H97
- Fluoroboric acid**, detmn. of, in boron, by ion chromatography, 7J46
- Fluorocarbons**, detection of, by g.c., e.c.d. for, 7C14
- Fluorochloridone**, detmn. of, by capillary-column g.c., 7G29
- Fluoro-immunoassay**, apparatus for, 10J9
 dye as label in, 1D170
 microtitre plate for indirect, 9D5
 time-resolved, with europium label, 10D8
- Fluorouracil**, detmn. of, by h.p.l.c., after derivatization with 4-bromomethyl-7-methoxycoumarin, 6D281
 in blood plasma, by isotachopheresis, 4D131
 in plasma, by g.c., 7D89
 by g.l.c., 6D121
 in serum, by g.l.c. with nitrogen-selective detection, 5D97
- , **5,6-dihydro-**, detmn. of, in plasma, by g.c., 7D89
- Fluoxymesterone**, detection of metabolites of, in body fluids, by computerized g.l.c., 6D70
- Fluphenazine**, detmn. of, by anodic voltammetry, 10E24
 in plasma, by g.c. - m.s., 6D97
 by r.i.a., haptens for, 9D66
 spectrophotometric, 8E47
- Flupirtine**, detmn. of, in plasma and urine, by h.p.l.c., 8D46
- Flurazepam**, detection of, and its metabolites, in urine, by t.l.c., 3D43
 detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
 detmn. of, in biological materials, stability-indicating, 3D55
 in plasma, by extraction on Extrelut columns and polarography, 10D92
- , **hydroxyethyl-**, sepn. of glucuronide of, from urine, by h.p.l.c., 8D44
- Flurbiprofen**, detmn. of, in plasma, by g.l.c., 6D82
- Fly ash**, analysis of, by ICP a.e.s. with direct powder injection, 12J99
 by n.a.a. and ICP a.e.s., 11B158
 rapid screening by g.l.c. in, 5B280
 detmn. of chlorodibenzo-*p*-dioxin derivatives in, by h.p.l.c. - g.c. - m.s., 7B146
 detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126
 detmn. of mercury in, by cold-vapour a.a.s., interference in, 10B174
 detmn. of nitro-PAH in, by h.p.l.c. - g.c. - thermal energy analyser, 12H39
 detmn. of organic compounds in, by g.c. - m.s., 3H81
 detmn. of polychlorinated dibenzo-*p*-dioxins in, by g.c. - m.s., 12C38
 by high-resolution g.c. - m.s., 5C57
 detmn. of polychlorinated dioxins and furans in, by isomer-specific techniques, review, 11H3
 detmn. of silicon in, by 14-MeV n.a.a., 7B145
 detmn. of uranium in, 5B279
 extraction of benzo[*a*]pyrene from, 12B177
 identn. of organic compounds in, from municipal incinerator, by h.p.l.c. and g.l.c., 10B175
 size fractionation of sub-micrometre aerosols of, 6B177
- α -Foetoprotein**, detmn. of, by r.i.a. and immunoradiometric assay, 1D158
 by three-site sandwich r.i.a., 2D207
 in serum, by enzyme immunoassay, solid support for, 12D195
 by first-antibody - enzyme zone immunoelectrophoresis, 6D255
 by zone immunoelectrophoresis, 3D196
- α_1 -Foetoprotein**, detection of, monoclonal and polyclonal antibodies in enzyme immunoassay for, 6D254
 detmn. of, by immunoassay with acridinium esters as chemiluminescent labels, 2D205
 in serum, immunofluorimetric, 2D206
- Folate**, detmn. of, in erythrocytes, by radioassay, 3D243
 in serum, in presence of cyanocobalamin, by r.i.a., 4D294
- Folate derivatives**, identn. of glutamyl-containing, in tissues, by gel electrophoresis, 7D233
- Folate monoglutamates**, detmn. of, by h.p.l.c., 3D244
- Folates**, detmn. of, in blood, by h.p.l.c., 5D230
- Folic acid**, detmn. of, in blood, microbiological and radio-immunological, 7D231
 in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31
 in tablets, by continuous-flow analysis, 1J17
 m.s. of derivatives of, 11D227
- , **5-methyltetrahydro-**, detmn. of, in blood, by h.p.l.c., 5D230
- Folic acid calcium salt**, detmn. of, in multivitamin preparations, by h.p.l.c., 9E30
- Follicle acid**, detmn. of, in serum, by h.p.l.c., 6D73
- Follicle-stimulating hormone**, detmn. of, in serum, by r.i.a., 5D193
- Follicular fluids**, analysis of steroids in porcine, by h.p.l.c., g.c. and g.c. - m.s., 6D189
- Folpet**, detmn. of, in mixtures with captan and captafol, by g.c., 7G30
- Foods**, analysis of, 11F45B, 11F46B, 11F47B
 by g.l.c., 4J56
 by head-space g.c., 6F5
 by head-space g.l.c., 5J50
 by h.p.l.c., 9F3
 by isotachopheresis, review, 8J45
 by m.s., review, 9F1
 by n.m.r., 5F1
 by stable-isotope methods, review, 7F1
 by t.l.c., 7J52
 instrumental, 11F44B
 sensory, 11F49B
 detection of betanin in, by t.l.c., 7F24
 detection of bitter compounds in, by gel chromatography and h.p.l.c., 11F6
 detection of pesticides in, by two-column g.c., 6F14
 detection of plastics additives in, by h.p.l.c., in migration study, 8F15
 detection of sesame oil in coloured fatty, colorimetric, 9F55
 detection of sesame oil in fatty, 6F80
 detection of T-2 toxin in, by enzyme immunoassay, 1F2
 detmn. of additives and contaminants in, chromatographic, review, 8F2
 detmn. of adsorbed or entrapped gases in, by head-space analysis, 6F1
 detmn. of amines in, by h.p.l.c., 2F6, 7F14
 detmn. of amino-acids in proteins of, 1F1
 detmn. of ammonium ion in, by a.a.s., 1B82
 by Berthelot reaction, review, 12B101
 detmn. of α - and β -glutamins in, by r.i.a., 6F28
 detmn. of anetholes and estragoles in, by natural-abundance deuterium n.m.r., 7F78
 detmn. of antimony in, by hydride-generation a.a.s., 11F1
 detmn. of antioxidants in, by t.l.c., 4F13
 by t.l.c. or h.p.l.c., 8F12
 detmn. of aroma compounds in, by liquid chromatography, review, 9F13
 detmn. of arsenic, cadmium, copper and lead in, by differential pulse anodic-stripping voltammetry, 10F1
 detmn. of arsenic in, by a.a.s., 12H5
 detmn. of ascorbic acid in, by fluorimetry, 7F17
 review, 9F9
 detmn. of aspartame in, by h.p.l.c., 10F19
 detmn. of aza-arenes in high-protein, by g.c., 7F37
 detmn. of benzoic acid and sorbic acid in, by t.l.c., 11F10
 detmn. of boric acid in, by spectrophotometry, 8F3
 detmn. of cadmium, lead and copper in, by a.a.s., 7F5
 detmn. of calcium and phosphorus in, by plasma emission spectrometry, 12D22
 detmn. of carbohydrates and alcohols in, by ion chromatography with amperometric detection, 3J36
 detmn. of carbohydrates in, by h.p.l.c., 9F5
 2-t-butylanthraquinone in, 7E9
 detmn. of carotenes in, 3F5
 detmn. of contaminants in, review, 8F1
 standard methods for, 6F2
 detmn. of copper in, spectrophotometric, 3B29
 detmn. of creatinine in meat-extract-containing, by h.p.l.c., 7F42
 detmn. of curcuma dyes in, by h.p.l.c., 6F20
 detmn. of cyanide in, colorimetric, 7F8
 detmn. of cyclopiazonic acid in, by t.l.c., 5F37
 detmn. of dietary fibre in, 6F4
 detmn. of dyes in, by dual-wavelength spectrophotometry, 3F8
 by extraction - t.l.c., 4F36
 by h.p.l.c., 6F18
 detmn. of EDTA in, by h.p.l.c., 7F28
 detmn. of emulsifiers in, by spectrophotometry, 5F8
 detmn. of fat in, extraction - gravimetric, 2F3
 detmn. of fluoride in, ion-selective electrode for, 3F3
 detmn. of free and molecular sulphur dioxide in, by head-space g.c., 6F68
 detmn. of furosine in, by h.p.l.c., 6F13
 detmn. of glucono- δ -lactone in, by g.c., 7F29
 detmn. of glycosides in, by densitometry, 1F6
 detmn. of heavy metals in, by low-temperature ashing and a.a.s., 7F6
 sample preparation for, review, 7F3
 detmn. of hydrogen peroxide in, by spectrophotometry, 3F1
 detmn. of insoluble and soluble dietary fibre in, gravimetric, 9F8
 detmn. of iodine in, by differential pulse polarography, 7F11
 detmn. of lactic acid in, by h.p.l.c., 12F3

Foods—continued

- detmn. of lead and cadmium in, by dry-ashing - a.a.s., 8F4
 detmn. of lead in plastic containers for, by indirect oxidation - fluorimetry, 12F11
 detmn. of lecithin in, 6F21
 detmn. of lysine in proteins of, by succinylation, 11F5
 detmn. of manganese in, spectrophotometric, 8F5
 detmn. of mercury in, by a.a.s., 3F2
 by gold amalgamation method, 10F2
 by n.a.a., 4D25
 detmn. of methionine and its sulphoxide in, by g.l.c., 6F11
 detmn. of α -methylstyrene in, by g.l.c., 6F22
 detmn. of moisture in, review, 6F6
 detmn. of monoglycerides in, by g.l.c., 11F7
 detmn. of monosodium glutamate in, clean-up and derivatization procedure for, 7F21
 detmn. of mono- to tetra-saccharides in, by h.p.l.c., 9F6
 detmn. of mycotoxins in, by h.p.l.c., review, 10F12
 by t.l.c. and h.p.l.c., review, 9F10
 detmn. of mycotoxins in mouldy, by t.l.c., 5F6
 detmn. of nicotinic acid in, h.p.l.c. and microbiological, 11F3
 detmn. of nitrate and nitrite in, 6F9
 by h.p.l.c., 7F9
 by spectrophotometry, 5F3
 detmn. of nitrite in, spectrophotometric, 10F32
 detmn. of nitrogen and protein in, Kjeldahl, potassium sulphate as catalyst in, 12F6
 detmn. of nitrogen in, Kjeldahl, review, 4F4
 detmn. of *N*-nitrosamines in, by g.l.c., 2F8
 detmn. of nitrosamines in, by g.l.c. and h.p.l.c., 8F7
 detmn. of organochlorine insecticides in, 7F71
 detmn. of oxalate in, enzymic, 11F2
 detmn. of PAH in, by capillary-column g.c. and h.p.l.c., 10F3
 by h.p.l.c., 6F10
 review, 7F15
 detmn. of peptides in, by h.p.l.c., 7F43
 detmn. of pesticides and industrial chemicals in, by g.c., 7J65
 detmn. of pesticides in, by automated g.l.c., 6F15
 by t.l.c., 6F16
 detmn. of pesticides in non-fatty, automated solvent-partitioning system for, 10F15
 detmn. of phenylmercury compounds in, by g.c., 11G33
 detmn. of phytate in, by ion exchange, 2F5
 detmn. of plant hydrocolloids in, by ion-exchange chromatography - spectrophotometry, 8E92
 detmn. of potassium bromate in, by ion exchange - colorimetry, 12F10
 detmn. of preservatives and sweeteners in, non-aqueous titrimetric, 10F21
 detmn. of preservatives in, by h.p.l.c., 5F9
 detmn. of purines and pyrimidines from protein-rich, by ion-exchange chromatography, 9F7
 detmn. of quercetin and kaempferol in, by fluorimetry, 1F4
 detmn. of reducing sugars in, by copper reduction - a.a.s., 9D108
 by h.p.l.c. with post-column reaction, 7C19
 detmn. of saccharin in, by ion-pair h.p.l.c., 8F9
 detmn. of saccharin sodium in, by methylation - g.l.c., 9F15
 detmn. of selenium in, by flameless a.a.s., 4F5
 detmn. of skimmed-milk powder in, 6G20
 detmn. of sodium in, ion-selective electrode in, 6F7
 detmn. of styrene in, by g.l.c. and h.p.l.c., 11F11
 detmn. of sugars and ethanol in, amperometric, 2F4
 detmn. of sugars in, by h.p.l.c., interference by sodium chloride in, 8F16
 by h.p.l.c. and g.l.c., 4F6
 detmn. of sulphite in, enzymic, 5F4
 detmn. of sulphur dioxide in, 11F48B
 detmn. of *t*-butylquinol in milk-containing, by g.l.c., 8F37
 detmn. of thiamine in, by h.p.l.c., 5E29
 detmn. of thickeners in, by electrophoresis, 4F12
 detmn. of tin in canned, by a.a.s., 6F8
 detmn. of total mercury in, by mixed-acid solubilization - a.a.s., 7F7
 detmn. of trace chromium and molybdenum in, spectrophotometric, 7F10
 detmn. of trace elements in, by a.a.s., a.e.s., XRF, n.a.a., polarography and voltammetry, review, 12F1
 by polarography or voltammetry, review, 2F2
 detmn. of trichothecene mycotoxins in, by t.l.c., review, 7F19
 detmn. of trichothecene toxins in, by g.c. and high-performance t.l.c., 10F13
 detmn. of vinyl chloride in, by g.c., calibration of head-space sampling in, 3F4
 detmn. of vitamin C and isovitamin C in, by h.p.l.c. with pre-column derivatization, 11F4
 detmn. of water in, by filament hygrometry, 4F3
 by modified Karl Fischer titration, 4F2
 extraction of Dastib-845 from, 1F5
 identn. of coal-tar dyes in, by t.l.c., 6F19
 quality control of, systems for, 7F2
- Forensic analysis**, by g.c., developments in column technology for, review, 7J58

Forensic analysis—continued

- by g.c. - m.s., 3C65
 by t.l.c., screening procedure for, 4E7
 estimation of post-mortem time in, by proton n.m.r., 6D157
 of explosives residues, by h.p.l.c. and t.l.c., 7C104
 r.i.a. in, review, 1D37
- Formaldehyde**, detmn. of, in air, automated, 4H36
 by chemiluminescence, 9H28
 by colorimetry, 1H20, 2H23
 by g.c. or h.p.l.c. after trapping as hydrazone, 11H23
 fluorimetric, 8H24
 generation of test atmosphere for, 1H22
 microwave spectrometer for, 9H5
 monitor for, 12H37
 passive sampling device for, 2H22
 piezoelectric crystal detector in enzymic, 4H35
 sample loss in, 1H21
 with passive collectors, 11H25
 in beer and soft drinks, by h.p.l.c. as its 2,4-dinitrophenylhydrazone, 5F50
 in blood and urine, by radiometry with carbon-14-labelled dimedone, 2D132
 in milk, by h.p.l.c. of hydrazone, 9F34
 in ointments, paper, textiles or leather, spectrophotometric, 9C15
 in periodate-oxidized glycol systems, by spectrophotometry, 6D153
 in products of 3-picolone synthesis, volumetric and polarographic, 5C22
 in raw, waste and potable waters, 2H56
 in tauridine, by g.c., 2E41
 in water, by g.c. as cyanohydrins, 10H77
 in work-place air, spectrophotometric, 8H30
 review, 12C17
- detmn. of formic acid in aq., by coulometric thermometric titration, 5C23
 detmn. of oligomers of, by g.c., 12C16
 detmn. of trace, in air, by g.c., review, 6H6
 monitoring of, in air, 2H21
- Formamide, dimethyl-**, detmn. of, in soln. for production of cellulose fibres, 10C72
- Formate**, detmn. of, chemisorbed on Fischer - Tropsch catalysts, 6B180
 in aluminium anodizing baths, by ion chromatography, 7J46
 in lake sediment, by h.p.l.c. and g.l.c., 9H72
 in precipitation water, by ion chromatography, 12H42
- Formazan, 3-cyano-1,5-bis-(2-hydroxy-5-sulphophenyl)-**, as complexing reagent for polarography of rare-earth metals, 5B95
- Formic acid**, detmn. of, by g.c. and h.p.l.c., 4F16, 9F19
 by photochemical oxidation with thallium^{III}, 7C22
 in air, by h.p.l.c., 3H19
 in aq. formaldehyde, by coulometric thermometric titration, 5C23
 in dextrose soln., by ion chromatography, 12E63
 in presence of metal ions, by complexometry, 7B4
 in presence of other acids, by g.l.c., 8D115
- Formic acid sodium salt**, i.r. spectrum of deuterium in deuterated analogue of, spectral-subtraction technique for, 8C18
- Formononetin**, detmn. of, in *Ononis spinosa*, by h.p.l.c., 7D203
- Fostedil**, detmn. of, in plasma or urine, by h.p.l.c., 8D90
- Frangrances**, identn. of volatile components of, by g.c. - m.s., data bank for, 8F8
- Fraxetin**, detmn. of, in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
- Fraxin**, detmn. of, in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
- Fraxinus stylosa**, detmn. of coumarins in, by t.l.c. - densitometry, 12E21
- Fructose**, detmn. of, colorimetric, 10D119
 in apple juice, by ion chromatography, 5F2
 in biological fluids, enzymic, 4D145
 in breakfast cereals, by h.p.l.c., 6F29
 in cane sugar, by h.p.l.c., 4F17
 in cane-sugar process materials, by h.p.l.c., 4A1B
 in food, by h.p.l.c., interference by sodium chloride in, 8F16
 by h.p.l.c. and g.l.c., 12F4
 in plant tissue, by h.p.l.c., 4D147
 in *Cucurbitaceae* spp., by h.p.l.c., 8F48
 in yogurt, by g.l.c. of TMS derivatives, 4F47
 review, 10F25
 titrimetric, 8C11
 detmn. of antimicrobial phenolic compounds in, by h.p.l.c., 2F12
 sepn. of, by h.p.l.c., 2C13
- Fructose-bisphosphatase**, assay of, in serum, spectrophotometric, 10D257
- Fructose-bisphosphate aldolase**, assay of, in tissues, radioisotopic, 6D302
- Fructose 1,6-diphosphate**, detmn. of, titrimetric, 8C11
- Fruit**, analysis of New Zealand, 7F68
 detection of choline in, by t.l.c., 1D134
 detection of pesticides in, by g.l.c., 3F6
 detmn. of antimony in, by hydride-generation a.a.s., 11F1
 detmn. of ascorbic acid in, by h.p.l.c., 10F49
 detmn. of ascorbic acid in fresh, by liquid chromatography, micro-fluorimetry or dye titration, 7F67
 detmn. of carbofuran residues in, by g.c. - m.s., 6G33
 detmn. of carotenes in, 3F5

Fruit—continued

- detmn. of dietary fibre in, 8F6
 detmn. of fungicides in, by g.c. - a.a.s., 3G18
 detmn. of 5-hydroxytryptamine in, by spectrofluorimetry and t.l.c., 8F45
 detmn. of *Alternaria* mycotoxins in, by h.p.l.c., 7F18
 detmn. of nitrite in, spectrophotometric, 10F32
 detmn. of organochlorine and organophosphorus pesticides in, by g.l.c., clean-up procedure for, 4F49
 detmn. of organothiophosphorus pesticides in, by g.l.c., 10G25
 detmn. of organotin fungicides in, by a.a.s., 2J73
 detmn. of paraffin wax and mineral oil on, by g.c. at high temp., 9F39
 detmn. of patulin in, by h.p.l.c., 4F51
 detmn. of patulin in products of, by t.l.c., 7F69
 detmn. of pesticides and phenolic degradation products in, by g.c., 9G16
 detmn. of pesticides in, by g.l.c. and h.p.l.c., 12G6
 detmn. of pesticides in soft, by g.l.c., 2F33
 detmn. of pyrazophos in, spectrophotometric, 12G10
 detmn. of pyrethroid residues in, by g.l.c., 2F32
- Fruit juices**, analysis of, by h.p.l.c., review, 9F40
 detection of iron in, 8B110
 detmn. of amino-acids in, by h.p.l.c., with automated derivatization and injection, 5D177
 detmn. of ascorbic acid in, by titrimetry, 1F16
 chloranil in titrimetric, 12E34
 spectrophotometric, 11E18
 detmn. of benzoic and sorbic acids in, by g.l.c., 8F54
 detmn. of carboxylic acids in, as *p*-nitrobenzyl esters, by h.p.l.c., 11F30
 by h.p.l.c., 11F31
 detmn. of lead and tin in, by potentiometric stripping analysis, 4F68
 detmn. of metals in, by voltammetry or a.a.s., sample pre-treatment in, 4D26
 detmn. of patulin in, by h.p.l.c., 4F51
 by t.l.c., 7F69
 detmn. of sugars in, 1F19
 detmn. of total ascorbic acid in, by difference spectrometry, 9F38
 quality control of Israeli citrus, 8F42
- Fucitol**, detmn. of, by g.l.c., 3C11
 sepn. of enantiomers of, by g.l.c., 5C19
- Fucose**, detmn. of, in tobacco leaves, by g.l.c., 11D120
- Fuel gases**, analysis of, by g.c., 6C34
 analysis of natural, by g.c., 6C35
 by g.c. on thick-film capillary columns, 4J67
 porous-layer open-tubular column for, 6J100
 detmn. of carbon dioxide, nitrogen, oxygen and hydrocarbons in natural, by g.c., 8C50
 detmn. of C₁ to C₈ hydrocarbons and inert gases in natural, by g.c., 5C64
 detmn. of sulphur compounds in natural, by g.c. with flame-photometric detection, 10C52
 detmn. of volatile thiols in natural and town, potentiometric, portable instrument for, 11C35
 sepn. of hydrogen sulphide from, 8C62
- Fuel oils**, analysis of, thermal, review, 8J131
 detmn. of benzo[a]pyrene in, by h.p.l.c., 5C69
 detmn. of cadmium in, by a.a.s. after dry-ashing, 11C33
 detmn. of elements in, by energy-dispersive XRF spectrometry, 5C75
 detmn. of nickel in, by a.a.s., 7C60, 8C59
 detmn. of sulphur in, reference materials for, 11C42
 detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60
 detmn. of vanadium in, spectrophotometric, 10C60
- Fuels**, analysis of fossil, thermal, review, 8J131
 analysis of fossil and synthetic, by n.m.r., symposium, 1A1B
 detmn. of carbon, moisture and ash in solid, by multiple neutron γ-ray spectrometry, 1B158
 detmn. of malthenes and asphaltenes in synthetic, by t.l.c. on Chromarods, 1C22
 detmn. of water and volatile compounds in solid, by g.c., 2B85
 detmn. of water in hydrocarbon, indicator test for, 11C38
 n.m.r. of organic solids from fossil, 12C49
 sepn. of hydroaromatic compounds and PAH in synthetic, by chromatography on picric acid - alumina, 4C64
- , **rocket**, analysis of combustion products of, spectrometric, 4C103
- Fulvic acid**, detmn. of, by size-exclusion chromatography with electrochemical detection, 11C13
- Fumaric acid**, identn. of, in apple juice, by liquid chromatography, 7F70
 sepn. of, from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- Fumigants**, detmn. of residues of, in stored grain, by g.c., 12G14
- Fungicides**, detmn. of, by g.c., polar glass-capillary column for, 2G18
 by spectrophotometry of evolved carbon disulphide, 4G37
 in citrus fruits, 8F43
 in fruit and vegetables, by g.c. - a.a.s., 3G18
 detmn. of benomyl in wettable powdered, by h.p.l.c., 12G12, 12G13
 detmn. of dithiocarbamate, in tobacco, by spectrophotometry, 6G30
 detmn. of organotin, in fruit, by a.a.s., 2J73
 sepn. of, by h.p.l.c., 6G27
- 2-Furaldehyde**, detmn. of, by flow-injection analysis, 3C39
 in cellulose soln., by spectrophotometry or polarography, 9C72
 detmn. of trace, in air, by g.c., review, 6H6

2-Furaldehyde—continued

- , **5-hydroxymethyl**-, detmn. of, in cellulose soln., by spectrophotometry or polarography, 9C72
 in port, by h.p.l.c., 9F51
 in wort and beer, by h.p.l.c., 5F49
- Furan**, **tetrahydro**-, analysis of crude, 8C45
 sepn. of mono- to tetra-deuterated isomers of, 7C47
- Furan-2-carboxylic acid**, **4,5-dihydro-5-methyl-4-oxo-5-phenyl**-, detmn. of, in serum, by h.p.l.c., 10D109
- Furan derivatives**, **5-nitro**-, detmn. of, in food, review, 8F1
- Furanocoumarins**, detmn. of toxic, in plants, review, 11D112
- Furan-2-one, dihydro**-, analysis of, by g.c., for quality control, 8C46
- Furazolidone**, detmn. of, in meats, by h.p.l.c., 2F14
- Furnaces**, microcomputer-controlled, with high temp.-stability and temp.-scanning capability, 5J2
- Furocoumarins**, detmn. of, in *Casimiroa edulis* seeds, by h.p.l.c., 11D154
- 2-Furoic acid**, g.c. - m.s. of TMS derivatives of, 9C8
- Furoin**, g.c. - m.s. of TMS derivatives of, 9C8
- Furosine**, detmn. of, in food, by h.p.l.c., 6F13
- Fusidic acid**, detmn. of, in plasma, by h.p.l.c., 3D42

G

- Gadolinium**, detmn. of, *NN*-bis-(8-hydroxyquinolin-2-yl)methylamine in luminescence, 6B78
 by spectrophotometry, 3B50
 in gadolinium lanthanum oxide sulphide phosphor, polarographic, 9B75
 in semiconductor alloys, by spectrophotometry, 4B82
 in uranium hexafluoride, spectrographic, 12B76
 methylthymol blue in amperometric titrimetric, 3B56
 spectrophotometric, 11B51
 extraction of, in eutectic mixtures, synergic, 3B57
- Gadolinium lanthanum oxide sulphide**, detmn. of gadolinium in, polarographic, 9B75
- Gadolinium oxide**, detmn. of fluoride in, by ion-selective potentiometry, 7B64
- Galactitol**, detmn. of, by g.l.c., 3C11
- Galactosamine**, detmn. of, by h.p.l.c., post-column derivatization - fluorimetric detection in, 8D110
 in glycoconjugates, by h.p.l.c., 6D151
- Galactose**, detmn. of, by oxidimetric titrimetry, 2C15
 in blood, by spectrophotometry, 4D149
 in tobacco leaves, by g.l.c., 11D120
 in yogurt, by g.l.c. of TMS derivatives, 4F47
 simultaneously with phenylalanine, in dried blood, automated continuous-flow, 9D183
- , **3,6-anhydro**-, detmn. of, in algal polysaccharides, spectrophotometric, 3D96
- β-Galactosidase**, assay of activity of, in murine intestinal tract, by ion-exchange h.p.l.c., 7D247
 sepn. of, by electrophoresis, replicas of silver-stained gels in, 3J40
- Galactosyltransferase**, assay of, by liquid chromatography, 4-nitrophenol glycosides as substrates in, 4D314
- D-Galacturonic acid**, detmn. of, by h.p.l.c., 5D118
- Galantamine**, detmn. of, in serum, urine and bile, by h.p.l.c., 2D89
- Galena**, detmn. of copper in, dimedone bis(amidinohydrazone) in catalytic spectrophotometric, 11B25
 detmn. of isotopes of sulphur in, by m.s., 12B91
- Gallic acid**, detmn. of, in tannic acids, by h.p.l.c., 2C77
 sepn. of, by h.p.l.c., 1G2
- Gallium**, detmn. of, arsenazo I in spectrophotometric, 9B62
 5-bromo-2-(salicylideneamino)phenol in spectrophotometric, 12B55
 by a.a.s. with laser evaporation, matrix interference in, 11J88
 by anodic-stripping voltammetry, sodium amalgamation in, 5J188
 by coulometric complexometric titration, 9B189
 by fluorimetry, picolinaldehyde 2-furoylhydrazone as reagent for, 1B49
 by polarography, 6B73
 cinnamohydroxamic acids in spectrophotometric, 2B4
 cupferron in polarographic, 9B64
 4,4'-dimethylazobenzene-2,2'-diol in fluorimetric, 7B56
 in aluminium, by spectrophotometry, 5B78
 in bauxite, by n.a.a., 5B77
 in bauxite and coal ash, by epithermal n.a.a., 8B47
 in environmental materials, by a.a.s., 7H4
 in indium phosphide, by proton-activation analysis, 12B186
 in presence of aluminium, by spectrophotometry, 5B84
 in red mud, review, 1B47
 in selenium, by n.a.a., 4B130
 in semiconductors and solders, by spectrophotometry, 5B244
 in semiconductor silicon, by chemical etching and a.a.s., 9B89
 in silicon, by spectroscopy, 4B103
 in silicon - germanium - gallium alloys, by ICP a.e.s., 10B178
 in synthetic corundum, 9B63
 ion-selective electrode for, 10J138
 Rhodamine B in spectrophotometric, 2B33
 Schiff bases in spectrophotometric, 10B8
 detmn. of metallic, in gallium oxide, by photometry, 1B48

Gallium—continued

- detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
- extraction of, alkylquinolin-8-ols in, 8B8
- from alkaline soln., 7-(3,3,5,5-tetramethyl-1-vinylhexyl)quinolin-8-ol in, 10B15
- with dithiocarbamates, 6B22
- sepn. of, by flotation as phosphate complex, 12B52
- decanoic acid in, 2B34
- Gallium-68**, sepn. of, from germanium-68, "hydrous tin^{IV} oxide" in, 3B8
- Gallium arsenide**, analysis of, by coulometric complexometric titration, 9B189
- detection of traces of carbon and oxygen in, by m.s., helium cryopumping in, 8B138
- detmn. of aluminium and alloyed impurities in, 6B184
- detmn. of gallium in, by polarography, 9B190
- detmn. of oxygen in surface of, by m.s., 11B165
- detmn. of silicon in, by spectrophotometry, 2B93
- detmn. of trace elements in high-purity, by visible-light-induced luminescence, 9B188
- Gallium compounds**, g.c. of organic, storage and sample-introduction systems for, 10C5
- Gallium oxide (Ga₂O₃)**, detmn. of metallic gallium in, by photometry, 1B48
- Gallium selenide**, optoacoustic spectrometric study of, 5J118
- Gallstones**, analysis of, by n.a.a., PIXE and XRF, 9D15
- detmn. of minor and trace elements in, by n.a.a., PIXE and XRF, 10D18
- Gamma-HCH**, detmn. of, by g.c. with e.c.d., 4J78
- in air, by t.l.c., 11H29
- in cod-liver oil, by g.l.c., 2F20
- in fatty foods, by t.l.c., 6F16
- in fish oils, by g.l.c., 2F21
- in sewage sludge, by g.c., 6H103
- in timber and formulations, by g.l.c., 6C50
- Gangliosides**, detmn. of, by h.p.l.c. after hydrolysis to their long-chain bases, 6D177
- by t.l.c. with scanning densitometry, 5D135
- detmn. of *N*-acetylneuraminic acid of, by t.l.c., 9D130
- Garnet, aluminium yttrium**, analysis of, by ion chromatography - titrimetry, 6B185
- detmn. of alkali metals in, 9B191
- detmn. of neodymium in, by XRF, 11B168
- , **iron yttrium**, analysis of films of, on gadolinium gallium garnet, emission spectrometric, 8B141
- Gases**, analysis of, accuracy of m.s. in, 5A38
- apparatus for, 1J6
- apparatus for calibration in, 4J4
- apparatus for preparation of standard mixtures in, 9J3
- automated system for, 4J1
- by derivative i.r. diode laser spectrometry, correction in, 8J6
- by dynamic coulometry, 1J8
- by emission spectrometry, review, 11J4
- by g.c., 5J6
- effect of atmospheric pressure on, 2J46
- by liquid chromatography, with gaseous stationary phase, 1J22
- by quadrupole m.s., automated instrument for, 5J131
- from catalytic cracking, porous-layer open-tubular column for, 6J100
- in blood, review, 8D1
- in bubbles in glass, by m.s., 1B162
- potentiometric sensors in, review, 8J8
- prep. of analytical standards for, permeation device for, 4J3
- prep. of calibration mixtures for, 6J7, 6J8
- prep. of standard mixtures for, sliding-valve device for, 4J2
- sampler for, 1J7
- tourmaline as gas-detecting sensor in, 8J4
- analysis of binary mixtures of, by sound resonance, apparatus for, 10J5
- analysis of inorganic, by optical methods, review, 10B6
- analysis of ultra-micro amounts of, by dynamic m.s., 2J90
- detection of, from quartz glasses, by g.c., 1B164
- detection of atoms and radicals in, review, 9H1
- detmn. of, atoms and radicals in, by spectrometry, 4B4
- by g.c., 6J5
- in air, with sorption tubes, 5H7
- in blood, heparin as source of error in, 4D44
- instrumentation for, 1D24
- in environment, review, 12H27
- in high-purity materials, by charged-particle activation analysis, 12B11
- in refractory metals and titanium, review, 10B1
- semiconductor sensors for, 4J7
- detmn. of dissolved, in ground water, sampling in, 10H39
- detmn. of dust in purified, from steam-generating plants, sampler for, 6H10
- detmn. of fault, in transformer oils, by g.c., 10C58
- detmn. of hydrocarbons in, instrument for, 12J1
- detmn. of inert, in natural gas, by g.c., 5C64
- detmn. of isotopic composition of, spectroscopic, 8J5
- detmn. of oxygen in, electrochemical cell for, 4B128
- electrochemical detectors for, 5B185
- solid-electrolyte detectors in, errors in, 3B73

Gases—continued

- detmn. of sulphur-containing, in oil shale, by m.s., 12B174
- detmn. of toxic, instrumentation for, review, 9J2
- detmn. of trace hydrogen in, low-temp. sensor for, 8B19
- detmn. of trace impurities in high-purity, by g.s.c., detector for, 7J69
- electrochemical sensors for, review, 12J152
- isotopic analysis of, by m.s. with dynamic flow, 1B66
- preparation of standard mixtures of, review, 7J3
- sampling of, in work-place air, device for, 7H8
- thermal desorption in, 7H3
- sepn. of, carbon membranes for, 6J4
- Gasoline**, analysis of, by g.c., 4C54
- by g.l.c., "heart-cutting" in, 11J61
- by h.p.l.c. - g.c., 6C39
- thickly coated open-tubular columns in g.l.c., 4J72
- analysis of hydrocarbons in, by h.p.l.c. - g.l.c., 1C19
- detection of alkylbenzenes in, by g.c. - m.s., 9C52
- detmn. of alcohols, acetone and ethers in, by h.p.l.c., 9C51
- detmn. of alcohols and *t*-butyl methyl ether in, by g.c. with i.r. detection, 11C37
- detmn. of alcohols and water in alcohol mixtures with, by liquid chromatography, 10C56
- detmn. of arsenic in, by anodic-stripping voltammetry, 9C50
- detmn. of benzo[a]pyrene in, by h.p.l.c., 5C69
- detmn. of hydrocarbon classes in, by g.c., 5C68
- detmn. of hydrocarbons in, by h.p.l.c. - i.r. spectrometry, 4C55
- detmn. of lead in, by a.a.s., 1C20, 10C57
- by carbon furnace - Zeeman a.a.s., 5C70
- by ICP a.e.s., 6J138
- detmn. of lead in treated, titrimetric, 3C48
- detmn. of organolead compounds in, 9C54
- detmn. of phenols and benzenethiols in, spectrophotometric, 9C49
- detmn. of saturated and aromatic hydrocarbons in, by g.c., 8C56
- detmn. of trace elements in, by n.a.a., 3C47
- measurement of stability of, by detmn. of oxygen absorption, 4C56
- Gastric juice**, assay of pepsin A in, with azocol as substrate, 12D239
- detection of diphenol and thiphenamil in, by t.l.c., 5D80
- detmn. of nitrite and *N*-nitroso-compounds in, by chemiluminescence, 4D47
- detmn. of *N*-nitroso-compounds in, by chemiluminescence, 2D121
- by h.p.l.c. with photo-hydrolysis detection, 6D141
- detmn. of nitrosopiperazines in, by g.l.c., 5D94
- Gastrin**, detmn. of, in serum, by r.i.a., inter-laboratory study of, 2D195
- Gastrointestinal fluid**, identn. of drugs in, by g.l.c. and t.l.c., 5D40
- GDP reductase**, assay of, by chromatography on polyethylenimine-cellulose, 8D231
- Gelatin**, detmn. of pentachlorophenol in, by g.c., 12F9
- Gemfibrozil**, detmn. of, and its benzoic acid metabolite, in plasma and urine, by g.l.c., 12D104
- sepn. of isomers of, by g.l.c., 2E49
- Genistein**, detmn. of, in *Ononis spinosa*, by h.p.l.c., 7D203
- Gentamicin**, detmn. of, by h.p.l.c., 8E34
- by immunoassay with terbium - transferrin complex as label, 10D70
- by potentiometry with carbon dioxide sensor and *Escherichia coli*, 5E22
- in biological fluids, spectrophotometric, 12D69
- in blood, by automated fluorimetry or photometry, 4J10
- interference by fluorescein in automated, 6D54
- milk or urine, by pptn. and spectrophotometry, 8E37
- in presence of Fluosol-DA, by r.i.a., 1D6
- in serum, by automated h.p.l.c., 9D50
- by EMIT, 6D66
- stability of calibration graph in, 4D71
- by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
- by fluoro-immunoassay, 1D39
- by fluoro-immunoassay with monoclonal antibody, 10D72
- by h.p.l.c., 8D39
- centrifugal analyser in, 4D10
- EMIT for, 5D55
- Gentamicin sulphate**, detmn. of C₁₂, C₂ and C₁ components of, by ion-pair h.p.l.c. with electrochemical detection, 8E38
- Gentiana spp.**, detmn. of polyphenols of, by h.p.l.c. with post-column derivatization, 9D220
- Gentisic acid**, detmn. of, in plasma and urine, by h.p.l.c., 4D100
- in urine of patients receiving aspirin, by h.p.l.c., 11D72
- sepn. of, by t.l.c., mobile phases for, 5C45
- Geochemical analysis**, by energy-dispersive XRF, detection modes in, 12B175
- by epithermal n.a.a., boron and cadmium filters in, 10J118
- Geochemistry**, polarography and voltammetry in, review, 9B7
- Geological materials**, detmn. of potassium, calcium and titanium in, by XRF, 4B192
- Geosmin**, detmn. of, in drinking water, by g.c. - m.s., 4H75
- Germanium**, detection of, in gas phase, review, 9H1
- detmn. of, by a.a.s. with hydride generation, 1B71
- by a.e.s., source in, 5J94
- by differential pulse anodic-stripping voltammetry, 5B143
- by flameless a.a.s., 8B69
- ethyl 4-cyano-5-(3,4-dihydroxyphenylazo)-3-methylthiophene-2-carboxylate in spectrophotometric, 11B80

- Germanium**, detmn. of, —continued
 in acidic soln., polarographic, 12B86
 in aq. and acid soln., h.f. generator with argon plasma for, 4J124
 in lead - zinc ores, by spectrophotometry, 6B97
 in manganese-doped magnesium zinc germanate silicate luminophor, 11B169
 in natural water, by hydride-generation a.s.s., 12H86
 potassium isopropyl xanthogenate in spectrophotometric, 10B85
 detmn. of aluminium and sodium in, by laser-atomic photo-ionization, 4J128
 detmn. of impurities in, 1B72
 by a.s.s., 5B144
 detmn. of oxygen in surface of, by m.s., 11B165
 detmn. of trace elements in, by photo-ionization spectroscopy, 4J141
 sepn. of, from molybdenum, by paper chromatography, 3B63
- Germanium compounds, methyl-**, detmn. of, in natural water, by hydride-generation a.s.s., 12H86
- Ghee**, detection of pig and buffalo fats in, by differential scanning calorimetry, 2F31
 detmn. of adulteration of, by fractional crystallization and g.l.c., 4F45
- Gibberellins**, detmn. of, in plants, by h.p.l.c. - selected-ion-monitoring m.s., 1G10
 sepn. of, by droplet counter-current chromatography, review, 9J9
- Gingival fluid**, detmn. of proteins in, by isoelectric focusing, 10D186
- Ginseng**, detmn. of ginsenosides in, colorimetric, 8E25
 sepn. of glycosides of, by h.p.l.c., 3E9
- Ginsenosides**, detmn. of, in *Panax ginseng*, by t.l.c. - densitometry, 11E13
 in ginseng preparations, colorimetric, 8E25
 sepn. of, by centrifugal t.l.c., 8E23
- Gitoxin**, detmn. of, of *Digitalis* spp., by h.p.l.c., 3E10
- Glass**, analysis of, by refractive-index measurement, computerized evaluation of, 9B177
 for forensic classification, 7B150
 analysis of corrosion products of, 7H2
 analysis of gases in bubbles in, by m.s., 1B162
 analysis of metallic, by electron-probe micro-analysis and secondary-ion mass analysis, 7B154
 analysis of reference, by laser-source m.s., 11J114
 analysis of sheet, 7B151
 analysis of surfaces and thin films of, review, 7B152, 8B135, 8B136
 detection of gases in quartz, by g.c., 1B164
 detmn. of barium in, tetraphenylborate in potentiometric titrimetric, 10B42
 detmn. of boron in, by n.a.a., 4J155
 by thermal neutron depth profiling, 12J137
 detmn. of boron in borosilicate, by n.a.a., 5B282
 detmn. of calcium and magnesium in, by a.s.s., 7B149
 detmn. of carbon in, by deuterium-activation analysis, 9B178
 detmn. of copper in, by a.s.s., ICP a.e.s. and d.c. plasma a.e.s., 12B180
 detmn. of elements in, by PIXE, 4H53
 by scanning electron microscopy with energy-dispersive X-ray spectrometer, 12B178
 detmn. of phosphorus and arsenic in quartz, extraction - spectrophotometric, 7B153
 detmn. of silicon in laser, spectrophotometric, 9B179
 detmn. of silver, lead and bismuth in, by a.s.s. with direct furnace volatilization, 8B134
 detmn. of silver and halides in, by potentiometric titration, 12B179
 detmn. of sodium and fluorine in, by proton activation, 12B23
 detmn. of sulphur in, by i.r. spectrometry following combustion, 8B68
 detmn. of tin in float, by chemical methods and XRF, 5B281
 detmn. of vanadium^{III} and vanadium^{IV} in optical, by amperometric titration with galloyanine, 4B127
 detmn. of vanadium in aluminium-containing, by spectrophotometry, 7B148
 forensic examination of, by interference microscopy, 4B200
- Glass fibres**, study of coupling agents on, by difference FT i.r. spectrophotometry, 8B137
- Glauberite**, detmn. of sodium in, ion-selective electrode in, 9B19
- Glaucarubine**, detmn. of, in *Simaruba glauca* seeds, by h.p.l.c., 4G19
- Glaucarubione**, detmn. of, in *Simaruba glauca* seeds, by h.p.l.c., 4G19
- Gliadins**, detmn. of, in cereal products, by gel electrophoresis, 7G6
 detmn. of α - and β -, by r.i.a., 6F28
 detmn. of immunoglobulin G antibodies against, by r.i.a., 11D206
- Glibenclamide**, detmn. of, in pharmaceuticals, by n.m.r. spectrometry, 4E59
 in tablets, by t.l.c., 3E49
- Globulins**, detection of, in cerebrospinal fluid, by agarose gel electrophoresis, 12D184
 detmn. of corticosteroid-binding, in plasma, by r.i.a., 1D162
 detmn. of sex-hormone-binding, in plasma, removal of interference in, 6D236
 detmn. of thyroxine-binding, in blood, by r.i.a., 3D198
 in serum, by enzyme immunoassay, 1D163
 sepn. of, in serum, by high-voltage electrophoresis, 5D205
 effect of storage on, 5D201
- Glucan**, detmn. of, in beer, review, 6F75
- β -Glucan**, detmn. of, in barley, enzymic, 5F46
 in oats, by h.p.l.c. after pptn. with Calcofluor, 7G7
- 1,4- α -Glucan branching enzyme**, assay of, in cotton leaves, by spectrophotometry, interference in, 4D307
- β -Glucans**, detmn. of, in barley, enzymic, 12F31
 in cereals, copper-pptn. - phenol method for, 10G7
- Glucansucrase**, assay of, *p*-nitrophenyl α -D-glucopyranoside as substrate for, 9D269
- D-Glucaric acid**, detmn. of, in urine, by h.p.l.c., 2D133, 7D119
- Glucitol**, detmn. of, by g.l.c., 3C11
 in erythrocytes, by capillary g.l.c., 2D131
 in food, by h.p.l.c. and g.l.c., 12F4
 in fruit and plant material of apple, enzymic, 10G8
 in grape juice, by polarimetry, 5F45
 sepn. of, by h.p.l.c., 2C13
 sepn. of isopropylidene derivatives of, by capillary g.c., 10E42
- 2,5-anhydro-**, detmn. of, in biological fluids, enzymic, 4D145
 2,3,5-triphenyl-2H-tetrazolium chloride in colorimetric, 3C12
- Glucocerebroside**, detmn. of, in plasma, by h.p.l.c., 2D145
- Gluconic acid**, detmn. of, spectrophotometric, 10C21
- Gluconic acid sodium salt**, detmn. of, spectrophotometric, 10C21
- Gluconolactone**, detmn. of, spectrophotometric, 10C21
- Glucono- δ -lactone**, detmn. of, in foods, by g.c., 7F29
- Glucosamine**, detmn. of, by h.p.l.c., post-column derivatization - fluorimetric detection in, 8D110
 in glycoconjugates, by h.p.l.c., 6D151
- Glucose**, detection of, in cotton, glucose-test rod in enzymic, 6C51
 in illicit narcotics, by g.l.c., 11E4
 detmn. of, by h.p.l.c., 2C16
 by ion chromatography, after oxidation to formic acid, 4C12
 by oxidimetric titrimetry, 2C15
 chemical - fibre optic sensors in, review, 9J68
 enzyme electrode for, 10C14
 enzyme electrode for flow-injection detector in, 11J133
 enzymic - electrometric, 7F12
 in apple juice, by ion chromatography, 5F2
 in bakery products, enzymic, 4F24
 in biological fluids, enzyme electrode in, 10J145
 in blood, by automatic analysers, 1D91
 effect of ascorbic acid on, review, 5D8
 enzyme electrode for, 10D120
 ferrocene derivative as electron-transfer mediator in, 12J164
 in presence of paracetamol, 7D108
 interference by cresol in, 1D92
 with Ektachem 400 Analyzer, 6D9
 with immobilized enzymes, 5D117
 with YSI Analyzer, interference by phenolic preservatives in, 2D125
 in breakfast cereals, by h.p.l.c., 6F29
 in cane sugar, by h.p.l.c., 4F17
 in cane-sugar process materials, by h.p.l.c., 4A1B
 in cerebrospinal fluid, by glucose oxidase - peroxidase procedure, interference by ascorbate in, 4D150
 in cerebrospinal fluid and plasma, by kinetic glucose dehydrogenase method, 8D106
 in erythrocytes, centrifugal analyser in, 4D20
 in fluids, by flow enthalpimetry, 8F51
 in food, by h.p.l.c., interference by sodium chloride in, 8F16
 by h.p.l.c. and g.l.c., 12F4
 in foods and beverages, amperometric, 2F4
 in pharmaceutical preparations, by h.p.l.c., 11E54
 by titrimetry, 4E4
 in plant tissue, by h.p.l.c., 4D147
 in plasma, by g.l.c. - m.s., 1D82
 by multi-layer film analysis, 7D109
 simultaneously with urea, automated, 1D124
 in plasma and blood, differential pH technique in, 12D148
 in rapeseed meal, by polarography or ion exchange, 5G8
 in rat plasma, by glucose oxidase - peroxidase method, interference in, 11D119
 in serum, 1D87, 1D88
 analyser for, 8J9
 automated analyser for, 9D10
 by continuous-flow amperometry, 5D115
 by enzymic flow-injection spectrophotometry, 5D116
 by enzymic reaction - g.l.c., 2D126
 reagent for automated enzymic, 12D112
 in serum or plasma, dry film slides and reflectance photometer in, 12J108
 in *Cucurbitaceae* spp., by h.p.l.c., 8F48
 in tobacco leaves, by g.l.c., 11D120
 in urine, by Clinitest method, interference by antibiotics in, 8D109
 interference by cefapirin sodium in, 12D116
 by reagent strip method, 6D149, 6D150
 with test strips, effects of antibiotics on, 11D121
 review, 1D2
- in yogurt, by g.l.c. of TMS derivatives, 4F47
 particulate matter for immobilization of enzyme in enzymic, 10D6
 review, 10F25
 with enzyme electrode, 3J112
- detmn. of antimicrobial phenolic compounds in, by h.p.l.c., 2F12
 detmn. of formic acid in soln. of, by ion chromatography, 12E63
 detmn. of moisture in, gas-dynamic, 11E2
 detmn. of organic acids in hydrolysates of, isotachophoretic, 10C73

Glucose—continued

- detmn. of total available, in industrial-fermentation feedstocks, enzymic - electrochemical, 9G4
 enzymic sensors for, 6J181
 sepn. of, by h.p.l.c., suppression of phosphate interference in, 7D112
 from its isopropylidene derivatives, by g.l.c. of TMS derivatives, 8C12
 —, **di-isopropylidene**-, sepn. of, from glucose, by g.l.c. of TMS derivatives, 8C12
 —, **isopropylidene**-, sepn. of, from glucose, by g.l.c. of TMS derivatives, 8C12
Glucose oxidase, assay of, electrode for, 2D229
Glucose-6-phosphatase, assay of, in muscle, by r.i.a., 8D253
 α -D-Glucose 1-phosphate, detmn. of, by h.p.l.c., 3D259
Glucose 1-phosphate, detmn. of, by oxidimetric titrimetry, 2C15
D-Glucose 6-phosphate, 2-amino-2-deoxy-, detmn. of, spectrophotometric, 10D123
Glucose-6-phosphate dehydrogenase, assay of, in blood, by agarose gel thin-layer electrophoresis, 8D228
 in erythrocytes, with centrifugal analyser, 10D249
 in rabbit and human kidney, by enzymic bioluminescence, 9D251
 sepn. of, from mouse liver, electrophoretic, 9J46
 α -Glucosidase, assay of neutral and acid, in biological fluids, 3D270
 in urine, 3D271
 β -D-Glucosidase, assay of, together with α -L-rhamnosidase, rapid method for, 6D310
Glucosides, detmn. of, cyanogenic, in bean paste, enzymic, 7F75
 β -Glucosides, detmn. of, enzyme electrode for, 11D122
Glucosiduronates, detmn. of, steroid, without preliminary hydrolysis, review, 11D149
Glucosinolates, detmn. of, in crops, review, 2G6
 in rapeseed meal, by polarography or ion exchange, 5G8
Glucosylceramidase, assay of, substrate for, 9D258
Glucuronic acid, detmn. of, by h.p.l.c., 5D118
 β -D-Glucuronidase, assay of, by g.l.c., 9D259
 in rat urine, pre-treatment for, 6D303
Glucuronides, characterization of, by h.p.l.c. - m.s., 4D70
Glutamate, detmn. of, in soy sauce, enzymic - spectrophotometric, 10F17
Glutamate acetyltransferase, assay of, 11D243
Glutamate decarboxylase, assay of, by chromatography, review, 6D317
Glutamate dehydrogenase, assay of, in *Vigna mungo*, by colorimetry, 3D249
 purification of, by affinity chromatography, 11D233
Glutamate dehydrogenase (NADP⁺), assay of fungal, by ELISA, 9D249
Glutamate synthase, assay of, in *Vigna mungo* leaf, colorimetric, 10D250
Glutamic acid, detmn. of, bromamine T in titrimetric, 7D174
 in brain tissue, by column chromatography - fluorimetry, 9D186
 in dosage forms, spectrophotometric, 3E51
 in fish sauce, noodles and soup powder, enzymic, 7F80
 in sea-water, by h.p.l.c., 3H62
 with enzyme electrode, 2D177
D-Glutamic acid sodium salt, detmn. of, in monosodium L-glutamate, by g.c., 4F10
L-Glutamic acid sodium salt, detmn. of monosodium D-glutamate in, by g.c., 4F10
Glutamine, detmn. of, in brain tissue, by column chromatography - fluorimetry, 9D186
 in fermentation broths, chromatographic, 12D169
 —, **dansyl**-, detmn. of, by m.s., 10D165
Glutamine synthetase, assay of, by electrophoresis, 3D279
Glutamyl-peptide γ -glutamyltransferase, electrophoresis of, stains for, 1D164
 γ -Glutamyltransferase, assay of, in serum, standard values for, 1D210
 in urine, stability-indicating, 3D246
 standards for, 5D237
 detmn. of, in serum, urine and bile, by r.i.a., 1D208
 sepn. of hydrophilic and hydrophobic forms of, in serum, by hydrophobic chromatography, 11D240
Glutamyl-tRNA synthetase, extraction of, from polyacrylamide gels, electrophoretic, 10D187
Glutaric acid, detmn. of, in urine, by g.l.c., 6D160
 —, **2-oxo**-, detmn. of, in plasma and cerebrospinal fluid, by capillary g.c. - m.s., 9D120
 in plasma and urine, 4D162
Glutarohydrazide, detmn. of, spectrophotometric, 3C20
Glutathione, detection of, in blood and plasma, by derivatization - h.p.l.c., 7D176
 detmn. of, by h.p.l.c., reagent for post-column reaction in, 11D116
 in biological materials, by h.p.l.c., 2D187
 in blood platelets and plasma, spectrophotometric, 7D179
 in erythrocytes, by polarography, 5D189
 in tablets, by h.p.l.c., 7E14
 molecular secondary-ion m.s. of, 3J90
 sepn. of, by liquid chromatography, 4D227
 sepn. of diastereoisomers of styrene oxide adducts with, by h.p.l.c., 3D256
 sepn. of reduced and oxidized, by t.l.c., 7D178
 —, **S-(1,2-dicarboxyethyl)**-, detmn. of, in eye lens, by h.p.l.c., 12D174
 —, **S-(3,5-di-*t*-butyl-4-hydroxybenzyl)**-, detmn. of, in rat bile, by h.p.l.c., 8D91

- Glutathione dehydrogenase (ascorbate)**, assay of, by spectrophotometry, 1D198
Glutathione peroxidase, assay of, in animal blood, by spectrophotometry, 11D234
 in blood, 8D30
Glutathione reductase, measurement of coenzyme activation of, in blood, kinetic, 8D227
Glutathione reductase (NAD(P)H), assay of, reversible inhibition by coenzyme in, 10D251
Glutathione transferase, assay of, styrene oxide as substrate for, 3D256
Glutathione transferases, assay of, in plasma, by r.i.a., 6D297
Glutathione S-transferases, assay of, colorimetric with *o*-dinitrobenzene as substrate, 11D244
Glutelin, detection of, by cation-exchange chromatography, 2G3
Glutelins, amino-acid sequencing of, of cereals, by ion-exchange chromatography, 9G6
Gluten-free products, detmn. of α - and β -gliadins in, by r.i.a., 6F28
Glutethamide, hydroxylamino-, detmn. of, in urine, by m.s., 7D88
Glyceraldehyde, g.c. - m.s. of TMS derivatives of, 9C8
Glyceraldehyde-phosphate dehydrogenase, detmn. of, in erythrocytes, 4D304
Glyceric acid, 2,3-diphospho-, ester, detmn. of, in blood, by bioluminescence, 2D139
 in erythrocytes, centrifugal analyser in, 4D20
Glycerides, analysis of pyrolysis products of, by g.c., 8D125
 detmn. of, by t.l.c. - f.i.d., 5D132
 in oils and fats, by g.l.c. after hydrolysis and derivatization, 6F79
 detmn. of *cis*- and *trans*-unsaturation of, by g.c. of epoxy-derivatives, 5F57
 sepn. of, from bovine brain, by h.p.l.c., 5D137
 —, **mono**-, detmn. of, by t.l.c. - f.i.d., 7F92
 in foods, by g.l.c., 11F7
 —, **tri**-, analysis of, of vegetable oils, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
 detmn. of, by derivatization - spectrophotometry, 11D139
 by h.p.l.c., optimization of, 11D138
 in blood serum, enzymic - electrometric, 10D136
 in chicken and turkey fat, 5F21
 in control materials for detmn. of high-density lipoprotein, by pptn., 8D210
 in edible oils, by reversed-phase h.p.l.c. - m.s., 9F54
 in fat of *Theobroma bicolor*, by t.l.c. and g.c., 11F42
 in maize oil, peanut oil, plasma, stripped lard or soya-bean oil, by h.p.l.c. - m.s., 4F75
 in serum, automated analyser for, 9D10
 by colorimetry, 1D105
 enzymic - spectrophotometric, 9D133
 review, 12D196
 in vegetable oils, by h.p.l.c., 11F40
 of *Sapium sebiferum*, by h.p.l.c., 2F44
 to calculate cocoa butter equivalents in chocolate, by g.l.c., 11F14
 sepn. of, by h.p.l.c., review, 11F35
 in fats and oils, by t.l.c., 4F78
 in olive oil, by h.p.l.c., 11D136
Glycerol, detmn. of, by g.c., 2C10
 in alkyl resins, by g.c., 3C70
 in blood serum, enzymic - electrometric, 10D136
 in environmental material, by g.l.c., estimation of microbial material by, 7H64
 in epoxy-resins, by g.l.c., 9C85
 in liquids from lysis of fats, by polarography, 5F59
 in plasma and serum, enzymic, 3D97
 in plasma of ruminants and in incubation media, enzymic, 7D115
 periodic acid in titrimetric, 4C11
 detmn. of carbonyl compounds in, polarographic, 11C9
Glycerol 1-phosphate, detmn. of, periodic acid in titrimetric, 4C11
Glycerol monostearate, identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
Glycerol trinitrate, detmn. of, by linear-sweep voltammetry, 5C116
 in blood, kinetic, 6E48
 in dosage forms, by h.p.l.c., 3E36
 in pharmaceutical preparations, by h.p.l.c., 1E27
 in plasma, by g.c., fused-silica capillary columns in, 11J57
 by h.p.l.c., 6D112, 8D70
 review, 5E42
 sampling of, in air, sorbents for, 2H30
Glycinamide, *N*-[4-chloro-2-(2-chlorobenzoyl)phenyl]-*N*-methylglycyl-, detmn. of, in plasma, by g.c. - m.s., 9D68
Glycine, detmn. of, by polarography of 2,4,6-trinitrophenyl derivatives, 9D178
 in sea-water, by h.p.l.c., 3H62
 —, **choly**l-, detmn. of, on immobilized bioluminescent enzymes, by photographic detection of light emission, 9D12
Glycine betaine, sepn. of, in plants, by cation-exchange h.p.l.c., 12D158
Glycine-2',6'-xylidides, detmn. of, in serum, by h.p.l.c., 4D114
Glycoalkaloids, detmn. of, in *Solanum pycnanthum* berries, by h.p.l.c., 6E11
 extraction of, from dehydrated potatoes, 1F17
 identn. of potato, by t.l.c., standard for, 7G9
Glycolic acid, N-nitroso-, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141

- Glycogen phosphorylase**, assay of, by bioluminescence method, 1D204
- Glycolipids**, detmn. of sulpho-, by spectrophotometry, after acetylation, 6D175
sepn. of, by solvent extraction - chromatography, 3D113
in blood, 7D130
- Glycollaldehyde**, g.c. - m.s. of TMS derivatives of, 9C8
- Glycopeptides**, sepn. of anionic, by h.p.l.c., 6D148
- Glycophospholipids**, analysis of, by t.l.c. - f.i.d., 9D129
sepn. of bases from, by h.p.l.c., 10D133
- Glycoproteins**, detection of, in serum, by gel electrophoresis, staining method for, 6D260
detmn. of, by electrophoresis, staining in, 4D238
detmn. of aldehydes in periodate-oxidation products of, by spectrophotometry, 6D153
detmn. of methylation products of, by g.c. - m.s., 3D93
detmn. of toxic, in plants, review, 11D112
detmn. of water in, 2D130
staining of, on electropherograms, 11D209
- Glycoside aglycones**, sepn. of, from plant materials, by h.p.l.c., 4E16
- Glycosides**, detection of, by h.p.l.c. with tensametric detector, 4J36
detmn. of, in liquorice root and senna, by h.p.l.c., with multi-channel photometric detector, 4E17
detmn. of cyanogenic, in food, by densitometry, 1F6
detmn. of hydroxyanthracene, in cascara preparations, 6E17
detmn. of phenolic, by h.p.l.c. with electrochemical detection after post-column enzymic cleavage, 2D127
sepn. of diterpene, of *Stevia rebaudiana*, by h.p.l.c., 9E9
sepn. of ginseng, by h.p.l.c., 3E9
sepn. of oligosaccharide, by h.p.l.c., 5D240
- , **caffeoyl phenylethanol**, detmn. of, of plants, by liquid chromatography, 10D131
- Glycosphingolipids**, identn. of, by fast-atom-bombardment m.s., 7D132
- Glycyrrhizic acid ammonium salt**, detmn. of, by potentiometric titrimetry, spectrophotometry and h.p.l.c., 10E17
- Glycyrrhizic acid tripotassium salt**, detmn. of, by potentiometric titrimetry, spectrophotometry and h.p.l.c., 10E17
- Glycyrrhizin**, detmn. of, by enzyme immunoassay, 5E20
- Glyoxylic acid**, detmn. of, by photochemical oxidation with thallium^{III}, 7C22
- Glyphosate**, detmn. of, by g.c., derivatization method for, 11G27
in formulations, by h.p.l.c., 4G33
- Gold**, analysis of, by XRF, coincidence techniques in, 5J73
analysis of soldered or brazed joints in antique jewellery, by PIXE and particle-induced γ -ray emission, 9B33
detection of, primaquine in spectrophotometric, 1B28
detmn. of, after enrichment on thiol-cotton column, by anodic-stripping voltammetry, 9B31
after sepn. on XAD-4 resin impregnated with 5-(4-dimethylaminobenzylidene)rhodanine, 8B34
as chloride or cyanide complex anions, ion-selective electrodes for, 9J128
by extraction - a.a.s., 1B27
by extraction - spectrography, 4B59
by graphite-furnace a.a.s., effect of pressure on, 1B26
by ICP a.e.s., 8B10
by luminescence, siloxene in, 4B57
by sorption and spectrophotometry, 5B49
by spark-source m.s., pre-concentration on aluminium powder in, 3B12
gravimetric, 3B37
in alloys, by coulometric titration, 1B25
in alloys with copper or nickel, coulometric, 3B39
in biological fluids, review, 10D26
in biological materials, review, 7D22
in copper intermediates, by flame a.a.s., 10B38
in copper ore concentrates, by a.a.s., 5B48
in cyanide soln., by extraction - a.a.s., 8B32
in electrolytes, by XRF, 11B30
in geochemical samples, by a.a.s., 3B40
in geological materials, by extraction - a.a.s., 1B138
by spectrography, 7B37
in layers on silica, by XRF, 11J75
in minerals and anode mud, ion-selective electrode for, 10J133
in mixtures, by spectrophotometry, 6B20
in nickel-plating electrolyte, by spectrography, 10B162
in ores, by automated n.a.a., 5B50
by extraction chromatography, 8B33
by flameless a.a.s., 6B52
by n.a.a., californium neutron source in, 5B52
kinetic - spectrophotometric, 9B30
polymethacrylate adsorbents for chromatographic, 6B51
in ores and flotation tailings, by a.a.s., 9B160
in presence of carbon and iridium, chemical - absorptiometric, 10B14
in presence of uranium, on resin, by XRF, 7B35
in rocks, by n.a.a., 4B58
co-pptn. with tellurium in, 5B250
by spectrography, 5B51
in sea-water, by n.a.a., 5H45
in selenium, by n.a.a., 4B130
in serum, by a.a.s., 3D15
- Gold**, detmn. of, —continued
in silicate rocks, ores and sea-water, by co-pptn. - n.a.a., 7B76
in sulphide ores, by a.a.s., 3B41
in synthetic sea-water, by ICP a.e.s., 7B17
in tissues and blood cells, by flameless a.a.s., 4D31
in water, by electrothermal a.a.s., 10H47
in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
mercaptosuccinic acid in titrimetric, 10B39
primaquine in spectrophotometric, 2B22
sodium dibutylselenocarbamate in spectrophotometric, 12B16
detmn. of antimony in, by spectrophotometry, 1B30
detmn. of impurities in, spectrochemical, 5B55
detmn. of tin in, by polarography, 1B29
detmn. of trace, cyanide-selective electrode in potentiometric, 12B45
extraction of, from nitric acid medium, 8B35
4-methyl-1,3-dioxolan-2-one in, 5B53
with bis(methylheptyl) methylphosphonate, 7B36
identn. of, in alloys, electrochemical, 12B17
recovery of, from anion-exchange resins, after adsorption from soln., 7B34
sepn. of, by cation-exchange chromatography, 4B180
by ion flotation, 4B17
from platinum and palladium, by adsorption - column chromatography, 3B14
solvent extraction of, 4B27
sorption of, from ammoniacal cyanide medium, on polyurethan foam, 5B54
- Gold alloys**, analysis of copper-containing, by Auger electron spectroscopy, 3B38
- Gold(III)**, detmn. of, in waters, potentiometric, 6H54
- Gold ores**, analysis of, by n.a.a., with californium-252, 9B32
- Gonadorelin**, sepn. of, from placenta, by h.p.l.c., 3D156
- Gonadotrophin, chorionic**, detection of, by immunoassay, 4D261
detmn. of, by enzyme immunoassay, 3D213
by r.i.a., interference by DNA in, 6D261
in serum, by fluoro-immunoassay, 3D197
by r.i.a., 5D209
kits for, 4D258
with the GammaDab β -HCG kit, false-positive results in, 4D260
in urine, by chemiluminescence immunoassay, 12D193
by enzyme immunoassay, 1D171
- detmn. of human, co-operative immunoassays for, 8D8
in serum, by sandwich enzyme immunoassay, 11D208
in urine, by homogeneous gold-sol particle immunoassay, 8D208
detmn. of β -sub-unit of, in serum, by enzyme immunoassay, 6D262, 12D194
- sepn. of sub-units of, by h.p.l.c., 3D208
- Gossypol**, detmn. of, by h.p.l.c., 10E16
in cottonseeds and cottonseed meals, spectrophotometric, 9G1
in plasma, by h.p.l.c., 12D68
- Grandiflorenic acid**, detmn. of, of *Montanoa tormentosa*, by h.p.l.c., 3E15
- Granite**, detmn. of elements in, by n.a.a. and particle-track analysis, 11B154
detmn. of metals in, by a.a.s., solubilization in, 1B155
detmn. of titanium in, by a.a.s., 5B155
- Granulocytes**, sepn. of, from other blood cells, by h.p.l.c., 4D11
- Grapefruit**, detmn. of bergapton in, by h.p.l.c., 8F41
detmn. of naringin in, by r.i.a., 6F55
- Grapefruit juice**, detmn. of organic acids in, by h.p.l.c., 5F36
detmn. of volatile compounds in, by g.c., isolation methods for, 11F29
- Grape juice**, detmn. of carboxylic acids and 2-oxoacids in, by ion-exclusion chromatography, 6C12
detmn. of mineral elements in, spectroscopic and potentiometric, 12F23
detmn. of sorbitol in, by polarimetry, 5F45
detmn. of tartaric acid in, colorimetric, 9F50
- Grapes**, detmn. of imidazolidine-2-thione in, by capillary g.c., 10G21
extraction of potassium and organic acids from, 4F55
sepn. of polyphenols in, by t.l.c., mobile phase for, 3J47
- Graphite**, detmn. of, in cast iron, radioisotopic, 5B228
- Grappa**, detmn. of higher alcohols in, by g.l.c., 6F77
- Grasses**, analysis of, by n.a.a., mineralization in, 5G1
detection of fatty acids in forage, by g.l.c., 6J101
detmn. of fluoride in, by direct potentiometry, 12D49
- Gravimetric analysis**, apparatus for micro-scale, 12B1
- Grayanoids**, detmn. of, in honey, spectrophotometric, 3F11
- Grayanotoxins**, detmn. of, in honey, spectrophotometric, 3F11
- Grease**, detmn. of nickel in, spectrophotometric, 12B151
- Grinding**, Wiley mill in, pulsating air in enhancement of, 11J1
- Growth hormone**, detmn. of, in pharmaceutical preparations, 9A2B
in presence of Fluosol-DA, by r.i.a., 1D6
in serum, by enzyme immunoassay, 8D194
by particle-counting immunoassay, 12D186
polyoxyethylene glycol in r.i.a. for, 8D197
sepn. of peptides from, by h.p.l.c., 3D158
- Guaicol**, detmn. of, spectrophotometric, 12C27
- Guaicol derivatives, chloro-**, detmn. of, in sediments, by g.l.c., 5H80
- Guaiphenesin**, detmn. of glucuronides of, in plasma and urine, by h.p.l.c., 12D93

- Guanidine**, detmn. of derivatives of, review, 11E21
 detmn. of salts of, by h.p.l.c. of acetylacetone derivatives, 9C20
 —, **1,1-dimethyl-, sulphate**, detmn. of, spectrophotometric, 12C23
 —, **methyl-**, detmn. of, in blood and serum, by h.p.l.c., 12D147
 —, **N-methyl-N'-nitro-N-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
Guanidine derivatives, detmn. of, by automated cation-exchange h.p.l.c., 9D168
 by h.p.l.c., 4D213
 identn. of biologically important, by desorption chemical-ionization m.s., 12D164
 sepn. of, in urine, by automated ion exchange - fluorimetry, 9D238
Guanine, detmn. of, in seaweed, by ion-exchange chromatography, 6D277
Guanosine, detmn. of, by ion-exchange chromatography, 6D277
 —, **adenosine 5'-P₁-tetraphospho-P₄5''-**, detmn. of, in *Physarum polycephalum*, 7D219
 —, **deoxy-**, sepn. of, by h.p.l.c., 2D221
 —, **2-deoxy-**, detmn. of, by spectrophotometry, diphenylamine in, 5D217
 —, **deoxy-, 5'-monophosphate**, sepn. of, by h.p.l.c., 2D221
 —, **guanylyl-**, sepn. of, by h.p.l.c., 3D234
Guanosine cyclic 3',5'-phosphate, detmn. of, by r.i.a., 3D229
 in serum, by chemiluminescent energy-transfer immunoassay, 4D6
Guanosine deaminase, assay of, in serum, by colorimetry, 6D304
Guar gum, analysis of, by thermogravimetry - m.s., 6J189
Guayule, identn. of rubber in, by pyrolysis - g.c., 9C90
L-Guluronic acid, detmn. of, in alginates, by h.p.l.c., 3D95
Gunshot, analysis of residues of, by PIXE, 7D13
Gut contents, detmn. of methylamines in, by g.l.c., 5D174

H

- Haem**, detmn. of, in faeces, by fluorimetry, 7D211
Haematin, detmn. of available haemin in soln. of, by h.p.l.c., 9E13
Haematite, analysis of, by near-i.r. reflectance spectrometry, 5J116
 detmn. of, by X-ray diffraction, silicon as internal standard in, 12B139
Haematofluorimetry, review, 9D223
Haematoporphyrin derivatives, detmn. of, in biological materials, by fluorimetry, 2D59
Haemin, detmn. of available, in haemin soln., by h.p.l.c., 9E13
Haemoglobin, **carbonyl-**, detmn. of, in blood, automated, 10D227
 by spectrophotometry, 4D274
 indirect, from pCO of alveolar air, 10D226
 in foetal blood, correction factors for IL 282 CO-Oximeter in, 2D213, 2D214
 —, **oxy-**, detmn. of, in amniotic fluid, by spectrophotometry, 4D271
 in foetal blood, correction factors for IL 282 CO-Oximeter in, 2D213, 2D214
Haemoglobin A₁, detmn. of, in blood, by column chromatography, 9D228
Haemoglobin A_{1c}, detmn. of, in blood, by h.p.l.c., 3D221
 by liquid chromatography, 2D216
Haemoglobin F, detmn. of, in blood, by electrophoresis, 9D227
Haemoglobins, analysis of copolymer of serum albumin with, by fast protein liquid chromatography, 7D212
 detection of abnormal, in blood, Isolab Fast Haemoglobin Test System for, 12D207
 detection of foetal, in blood-stains, by thin-layer immunoassay, 12D202
 detmn. of, in blood, by front-face fluorimetry, review, 9D223
 by spectrophotometry, 2D215
 effect of ascorbic acid on, review, 5D8
 graded haemagglutination inhibition in, 1D185
 spectrophotometric, 10D225
 in faeces, by fluorimetry, 7D211
 in foetal blood, correction factors for IL 282 CO-Oximeter in, 2D213, 2D214
 in plasma, colorimetric, 10D224
 in serum, by direct spectrophotometry, 12D201
 in serum or plasma, by colorimetry, 6D271
 detmn. of complexes with haptoglobin, in serum, by immunoelectrophoresis, 6D251
 detmn. of glycosylated, by affinity chromatography, 9D229
 by colorimetry, standardization of, 4D276
 by electrophoresis on agar gel, 1D186
 by isoelectric focusing, 12D208
 chromatographic, 8D215
 in blood, 9D231
 after removal of labile fraction, 8D214
 by affinity chromatography, 1D187, 12D204
 by automated h.p.l.c., 10D230
 by column chromatography, colorimetry and electrophoresis, 4D277
 by various methods, effect of sample storage on, 1D188
 collection tubes for, 1D189
 liquid-chromatographic, 12D206
 photometric, 12D205
 spectrophotometric, 9D230
 in erythrocytes, by affinity and ion-exchange chromatography, 10D228
 by affinity chromatography, 10D229
- Haemoglobins**, detmn. of glycosylated, —continued
 review, 8D216
 detmn. of oxygen in, electrode for, 3D216
 detmn. of stable glycosylated, in erythrocytes, by micro-column chromatography, 4D275
 electrophoresis titration curves of, with modified cellulose acetate membranes, 2D192
 sepn. of, by h.p.l.c., 3D220, 5D215
 by ultra-thin-layer polyacrylamide gel isoelectric focusing, prevention of distortion in, 11J40
 sepn. of globins of fast components of, by isoelectric focusing, 12D203
 sepn. of glycosylated, by liquid chromatography, 2D216
Haemoproteins, detection of, in polyacrylamide gels, by double-staining method, 9D203
Hafnium, detmn. of, biacetyl monoxime nicotinoylhydrazine in fluorimetric, 12B92
 fluorimetric, surfactants in, 8B14
 in alloys, by fluorimetry, 10B92
 in rocks, by spectrography, 1B8
 in zirconium and its alloys, by isotope dilution - n.a.a., 6B107
 in zirconium-based reference materials, by spark-source m.s., 12B99
 spectrophotometric, 12B100
 extraction of, into benzene, with triphenyl iminodiphosphate, 1B79
 with tributyl phosphate and triethylphosphine oxide, 5B162
 solvent extraction of, review, 5B161
 —, **bis-(η^5 -1,2,3,4,5-pentamethylcyclopentadienyl)-, dichloride**, sepn. of, by h.p.l.c., 5C52
Hair, analysis of, by XRF, correction in, 8D14
 detmn. of aluminium, copper and zinc in human, by a.a.s., 5D25
 detmn. of aluminium in, by flameless a.a.s., 9D26
 detmn. of arsenic, selenium and antimony in, by n.a.a., 2D39
 detmn. of arsenic in, by a.a.s., 11H40
 by wet digestion - a.a.s., 5D31
 detmn. of calcium in, by spectrophotometry, 7D26
 detmn. of chloroquine and desethylchloroquine in, by t.l.c. - m.s., 12D96
 detmn. of cobalt in, spectrophotometric, 9B152
 detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126
 detmn. of lead and nickel in, by electrothermal a.a.s., 7D31
 detmn. of methylamphetamine in, by enzyme immunoassay, 5D71
 by m.s., 12D82
 detmn. of methylamphetamine in rat, by g.c. - m.s., 3D62
 detmn. of sulphur, calcium, zinc and iron in, by PIXE, 4D55
 detmn. of thallium in, by a.a.s., 12D35
 by graphite-furnace a.a.s., 12H95
 detmn. of tin in, by anodic-stripping voltammetry, 7D30
 detmn. of trace-element profiles in human, by micro-PIXE, 11D16
 detmn. of trace elements in, by a.a.s., 12D12
 by a.e.s., 2D8
 by n.a.a., occupational exposure in relation to, 4D27
 by PIXE, 11D11
 detmn. of trace metals adsorbed on, by a.a.s. after solvent extraction, 7D15
 detmn. of zinc in, porphine derivative in spectrophotometric, 9B44
Hake, detmn. of indole in, spectrophotometric, 10F34
Halazepam, detmn. of, in plasma, by g.l.c., 6D93
Halides, detmn. of, as impurities in peptides, by capillary isotachophoresis, 11D180
 by ion chromatography with electrochemical and conductometric detection, 7B104
 by quenching of fluorescence, sensors for, 12B129
 by thermometric titrimetry, 5B208
 in electroplating baths, electrode for, 7B12
 in glass, by potentiometric titration, 12B179
 singly and in admixture, by potentiometric titration, 5B207
Halocarbons, detmn. of, in air, by g.c. - m.s., 7H19
Halofuginone, detmn. of, in chicken tissues, by h.p.l.c., 8F28
Halofuginone hydrobromide, detmn. of, in animal feed, by h.p.l.c., 4G23
Halogen compounds, detmn. of organic, in environmental materials, by g.c. with conductivity detection, 12H105
 in sea-water, by g.c., 6H82
 in water, by g.c. - microwave-induced plasma emission spectrometry, 7H60
 by pyrolysis - micro-coulometry, 9H75
Halogens, detmn. of, by e.s.r., 7B103
 by molecular absorption spectrometry, 10J92
 in organic compounds, by ion chromatography after sodium fusion, 4C6
 titrimetric, 10C8
 detmn. of trace, in protic solvents, amperometric, 3B85
Haloperidol, anodic voltammetry of, at rotating platinum or gold electrodes, 8E60
 detmn. of, by h.p.l.c., 8E61
 in plasma, by h.p.l.c., 6D92
 in serum and cerebrospinal fluid, by g.l.c., 12D80
Halothane, detmn. of, in air of operating theatres, aerosol ionization detector for, 9H34
 by g.c., 4H10
 in brain tissue, by head-space g.l.c., 8D62

- Halothane**, detmn. of, —continued
in water, by g.c., 7J56
- Ham**, detmn. of aza-arenes in, by g.c., 7F37
detmn. of nitrate in, by ion chromatography, 5F2
detmn. of ortho- and poly-phosphates in, spectrophotometric, 9F18
- Haptens**, detmn. of, by enzyme immunoassay, 5D10
- Haptoglobin**, detmn. of, in serum, by double-decker "rocket" immunoelectrophoresis, 6D251
spectrophotometric, 9D210
- Harman, tetrahydro-**, detmn. of, by h.p.l.c., 7D164
- Hawthorn**, detmn. of flavonoids in, by h.p.l.c. and t.l.c., 12E19
by t.l.c., 6E18
- Hay**, detmn. of metals in, by a.a.s., 8F20
- Hazards**, chemical, in industry, 7A27B
explosions, in preparation of tetramethyldiphosphine disulphide, 12A20
in synthesis of methyl azide, 8A27
with tetrasulphur tetranitride, 8A28
in drying of potentially explosive metal perchlorates, 7A24
- Hazel-nuts**, detmn. of fibre components in, 4F50
detmn. of phosphine in, by g.l.c., 2G29
- HCH**, detmn. of, by g.l.c., 2G27
by t.l.c., 2G17
in milk, by g.l.c., 4F39
sepn. of isomers of, by g.l.c., 11C15
sepn. of metabolites of, in liver, by h.p.l.c., 7D106
- H-Coal distillate**, analysis of, by computerized g.c. - m.s., 3C53
by gel-permeation chromatography, 7C65
- Heart**, assay of fatty acyl-coenzyme A oxidase in, by fluorimetry, 3D255
detmn. of acyl-CoA in, by h.p.l.c., 4D281
detmn. of ATP in, by h.p.l.c., 10D237
detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
detmn. of creatine phosphate and adenine nucleotides in, by h.p.l.c., 8D218
detmn. of doxepin and its metabolites in, by t.l.c. and g.l.c., 3D57
detmn. of high-energy nucleotides in, by h.p.l.c., 2D217
detmn. of lipid peroxidation products in, sucrose interference in thiobarbituric acid method, 10D134
detmn. of malonyl-coenzyme A in rat, enzymic, 11D218
detmn. of nucleotides in, by h.p.l.c., 3D232
detmn. of thallium in, by a.a.s., 8D25
extraction of lysophosphatidylcholine from, storage of extracts after, 10D138
identn. of amino-acids in, by g.l.c., 2D172
sepn. cyclic nucleotide phosphodiesterases of rat, by isoelectric focusing, specific activity stain for, 4D316
sepn. of adenine and adenosyl-sulphur compounds in, by h.p.l.c., 2D223
- Heat-transfer fluids**, analysis of, by computerized g.c., 11J48
- Helium**, detmn. of, by activation with heavy ions, review, 12B10
by scattering of combination X-ray lines, 8B7
in nickel alloys, by m.s., 1B5
detmn. of isotopes of, in binary mixtures, by sound resonance, 10J5
detmn. of neon in, by laser-excited fluorescence, 6B29
detmn. of sulphur hexafluoride in, by total-internal-reflectance optoacoustic spectroscopy, 6J154
- Hemicellulose**, detmn. of, in sunflower seed, acorn, peanut, pumpkin seed, hazel-nut and chestnut, 4F50
in tobacco, 1D79
- Heparan sulphate**, detmn. of, in serum, by laser nephelometry, 10D122
sepn. of, from lung, by chromatography on poly-L-lysine-Sepharose, 11D123
- Heparin**, detmn. of, azure dyes in spectrophotometric, 12E20
by chemiluminescence with lucigenin, 7D113
by rocket electrophoresis, 6D127
by spectrophotometry, 4E20
effects of preservatives in, 11E49
review, 3D37
sepn. of, on cross-linked Sepharose, in presence of ammonium sulphate, 11D124
- Heparin sodium**, detmn. of zinc in, 12D26
- Hepatic microsomal monooxygenase**, assay of, by h.p.l.c. of products of hydroxylation of testosterone, 11D235
- Hepatitis B surface antigen**, detection of, human anti-hepatitis B surface antigen in, 11D201
- Heptacaine**, detmn. of, by XRF and radiometry, 11E30
extraction of, from biological materials, by chromatography, 4D113
sepn. of, from biological fluids, by adsorption on C₁₈ silica gel, 10D97
- Heptadecanoic acid**, extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
- Heptaminol**, detmn. of, after phthalaldehyde - thiol derivatization, by h.p.l.c., 7E29
- Heptane**, detmn. of, in methyloxiran polyethers, by g.l.c., 2C70
- Heptanoic acid**, detmn. of, in presence of other acids, by g.l.c., 8D115
—, 4,6-dioxo-, detmn. of, in urine, by g.c. as oxime - TMS derivatives, 11D130
- Heptan-3-ol, 4-methyl-**, sepn. of enantiomers of, by complexation g.c., 12J67
—, 5-methyl-, sepn. of enantiomers of, by complexation g.c., 12J67
- Hept-1-ene**, carbon-13 n.m.r. of, 2C6
- 2-Heptylamine**, detmn. of, after phthalaldehyde - thiol derivatization, by h.p.l.c., 7E29
- Heracleum persicum**, detmn. of essential oils and terpenes in, by head-space g.c., 4D144
- Herbicides**, analysis of spiro-oxazolidine antidotes to, by t.l.c. and h.p.l.c., 10E41
detmn. of, in potatoes and carrots, by t.l.c., 7G26
in sediments, by g.l.c., 2H61, 7H69
in water, by g.c., 10H69
by g.l.c. and g.l.c. - m.s., 2H60
detmn. of dalapon in, by liquid chromatography, 7G28
detmn. of pyrimidine-derived, by h.p.l.c., 8G12
sepn. of, by h.p.l.c., 6G27
in maize, by h.p.l.c., 10J35
- , **chlorophenoxy-**, detmn. of, in sewage, waste water and sludges, by g.c. - m.s., 6H104
- , **phenylurea**, detmn. of, and their aniline metabolites, by g.l.c. of heptafluorobutyl derivatives, 12G9
by g.c. or h.p.l.c. of heptafluorobutyl derivatives, 9G21
in river water, by h.p.l.c., 8H89
- , **triazine**, detmn. of, by differential pulse polarography, 5G33
in formulations, by g.c., 5G37
- Herbs**, analysis of, by automated head-space g.c., 6F66
by temp.-programmed-fractionation m.s., 12E22
sepn. of stereoisomeric fatty acids of, by h.p.l.c., 4F61
- Hercosett 125**, detmn. of, in wool-processing mixtures, titrimetric, 12C66
- Herring**, detmn. of nitrosamines in, by g.c., 5F24
detmn. of PCB in oil of, by g.l.c., inter-laboratory calibration in, 8F32
- Hesperidin**, detmn. of, in *Citrus reticulata*, by t.l.c., 9E10
- Heterocyclic compounds**, sepn. of sulphur-containing, by g.l.c., 2J52
- Hexadecane**, detection of, by g.c., isolation methods in, 3C4
detmn. of hexadecyl hydroperoxides in, by h.p.l.c., 3C6
- Hexadecanoic acid**, extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
- cis,trans-Hexa-2,4-dienoic acid**, detmn. of, in sorbic acid, by g.l.c., 4C20
- Hexa-2,4-dienoic acid, (E,E)-6-(diethylphosphono)-3-methyl-, methyl ester**, sepn. of, by h.p.l.c., peak-shaving recycle technique in, 8C25
- Hexamidine isethionate**, detmn. of, in dosage forms, by h.p.l.c., 8E75
- Hexamine**, detmn. of, by h.p.l.c., 1D63
ethyl methyl ketone in potentiometric, 11E42
in acetonitrile soln., potentiometric or visual titrimetric, 10E38
in pharmaceutical preparations, by titrimetry, 4E4
- Hexane**, detmn. of, in air, by g.l.c., 3H17
in edible oils, by head-space g.l.c., 4F79
in methyloxiran polyethers, by g.l.c., 2C70
sepn. of, from other hydrocarbons, by g.s.c., column packing for, 4J69
- , **1,6-di-isocyanato-**, detection of, in air, with sampling tubes incorporating 4-nitro-N-propylbenzylamine, 2H25
- Hexanoic acid**, detmn. of, in air, by g.l.c., stationary phases for, 8H23
in presence of other acids, by g.l.c., 8D115
—, **6-acetamido-**, detmn. of, impurities in, by t.l.c., 6E58
—, **6-amino-**, detmn. of, in 6-acetamidohexanoic acid, by t.l.c., 6E58
—, **2-ethyl-3-oxo-**, detmn. of, in blood serum or urine, by g.c. - m.s., 4D154
- Hexanol**, detmn. of, in apple-juice concentrates and liqueurs, by g.l.c., 9F45
- Hexazinone**, detmn. of, in soil and water, by h.p.l.c., 5G35
identn. of metabolites of, in rat tissues and plants, by m.s., 7D105
- trans-Hex-2-enal**, detmn. of, in apple-juice concentrates and liqueurs, by g.l.c., 9F45
- Hex-1-ene**, carbon-13 n.m.r. of, 2C6
- Hex-5-enoic acid, 4-amino-**, detmn. of, in plasma and urine, by automated amino-acid analysis, 11D67
- Hex-4-enoic acid, (E)-6-(diethylphosphono)-3-methylene-, methyl ester**, sepn. of, by h.p.l.c., peak-shaving recycle technique in, 8C25
- Hexitols, O-methyl-**, sepn. of, by reversed-phase h.p.l.c., 4D152
- Hexobarbitone**, detmn. of, by bromimetry, 4E37
by g.c. - m.s., stable isotopes in, 1E20
in plasma, by g.l.c., 3D45
- Hexobarbitone sodium**, detmn. of moisture in, gas-dynamic, 11E2
- Hexoestrol**, detmn. of, in biological materials, by r.i.a., 3D72
in faeces, by r.i.a., interference from fluocortolone and dexamethasone in, 5D149
in meat and meat products, by g.c. - m.s., 1F9
in tablets, by derivative spectrophotometry, 6E57
- Hexokinase**, assay of, cation-selective electrodes in, 6D309
- Hexosamines**, detmn. of, by h.p.l.c., post-column derivatization - fluorimetric detection in, 8D110
in glycoconjugates, by h.p.l.c., 6D151
- Hexylcaine**, detmn. of, electrode for, 8E66
- Hexylresorcinol**, identn. of, X-ray powder diffraction data for, 8E84
- Hibiscus syriacus**, sepn. of cyclopropanoid fatty acids in oil of, by h.p.l.c., 5D124
- Hippuric acid**, detmn. of, in cell suspensions and tissues, by h.p.l.c., 8D100
in urine, by h.p.l.c., 2D176
—, **4-amino-**, detmn. of, in serum, by colorimetry, effect of antibiotics on, 7D91
—, **o-hydroxy-**, detmn. of, in plasma and urine, by h.p.l.c., 4D100

Hippuric acid—continued

- , **methyl-**, detmn. of, in urine, by h.p.l.c., 2D176
- Histamine**, detmn. of, in biological fluids, by derivatization g.c. - m.s., 11D164
- review, 5D173
- in biological fluids and cell extracts, by ion-exchange chromatography with detection by fluorescence or with ninhydrin, 4D212
- in biological materials, by automated continuous-flow fluorimetry, 3D136
- in blood, by h.p.l.c. - fluorimetry, 7D162
- in brain tissue, by luminescence, 4D225
- in foods, by h.p.l.c., 2F6
- in meat, by ion exchange and capillary g.c., 9F21
- in plasma, radio-enzymic, 9D164
- in raw fish and fish products, by h.p.l.c., 10F35
- in soy sauce, by t.l.c., 7F79
- in urine, by chemical-ionization m.s., 3D133
- by fluorimetry and radioenzymic assay, 3D135
- by g.c. - m.s., 9D163
- in wine, by h.p.l.c., 5F52
- , **N⁶-methyl-**, detmn. of, in urine, by g.l.c., 2D171
- Histidine**, detmn. of, by polarography of 2,4,6-trinitrophenyl derivatives, 9D178
- by spot test and spectrophotometry, 5D182
- in brain tissue, by luminescence, 4D225
- detmn. of metabolites of, in bacterial cultures, by electrophoresis and chromatofocusing, 9D166
- Histones**, detmn. of, by electrophoresis, staining of gels for, 7D195
- electrophoresis of, on polyacrylamide gel, silver-staining procedure for, 6D248
- sepn. of, by electrophoresis, in sodium dodecyl sulphate - polyacrylamide gels, staining in, 11D203
- by h.p.l.c., 3D190
- from *Physarum polycephalum*, by h.p.l.c., 11D202
- Hizikia fusiforme**, detmn. of trace elements in, by PIXE, 11D13
- Holmium**, detmn. of, 2-acetylindone in spectrophotometric, 12B69
- by spectrophotometry, 3B50
- extraction of, in presence of perchlorate, diantipyrinylmethane in, 5B97
- sepn. of, from other heavy lanthanoids, by ion-exchange chromatography, 10B66
- Homocysteine**, detection of, in blood and plasma, by derivatization - h.p.l.c., 7D176
- detmn. of, by h.p.l.c., reagent for post-column reaction in, 11D116
- by voltammetry, 8D172
- sepn. of, by liquid chromatography, 4D227
- L-Homocysteine, S-adenosyl-**, sepn. of, in liver, heart and brain, by h.p.l.c., 2D223
- Homocystine**, detmn. of, by voltammetry, 8D172
- Homoprotocatechuic acid**, detmn. of, in bacteria, plants and biological tissues, by spectrophotometry, reagent for, 4D160
- Honey**, assay of amylase in, as index of adulteration by sugar, 5F13
- detmn. of benzoic and phenylacetic acids in, by extraction - g.l.c., 12F13
- detmn. of carbon-13/carbon-12 ratio of citrus, 8F17
- detmn. of fructose in, colorimetric, 10D119
- detmn. of grayanoids and grayanotoxins in, spectrophotometric, 3F11
- detmn. of phenol in, 9F20
- detmn. of sulphathiazole in, by reversed-phase h.p.l.c., 8F18
- Honeydew**, detection of, in cotton, glucose-test rod in enzymic, 6C51
- Hops**, detmn. of bitter acids in, by h.p.l.c., 8F55
- detmn. of bitter substances of, 10F60
- detmn. of oxidation products of colupulone in, by h.p.l.c., 8F56
- detmn. of phenolic carboxylic acids in, by extraction - h.p.l.c., 12F34
- sepn. of flavonol glycosides in, by h.p.l.c., 3F27
- sepn. of proanthocyanidins of, by liquid chromatography, 10F59
- Hormones**, detmn. of, in food, review, 8F1
- detmn. of free, errors in, 3D9
- detmn. of plant, review, 8G9
- detmn. of unbound, in serum or plasma, effect of sample dilution on, 8D142
- detmn. of unbound steroidal, in plasma, review, 8D133
- sepn. of, in plants, by counter-current chromatography, 9G15
- Horse-radish**, assay of peroxidase in, by enzyme immunoassay, 11D230
- HT-2 toxin**, detmn. of, in cereals, by h.p.l.c., 10G2
- in maize, by g.c. - m.s. with selected-ion monitoring, 9G2
- in mouldy food, by t.l.c., 5F6
- Humic acids**, adsorption of, from drinking and waste waters, 11H60
- detmn. of, by nitrosation - pulse polarography, 9H67
- in coal, by thermal analysis, 8C61
- gel-filtration chromatography of, with electrochemical and u.v. detectors, 8G4
- Hyaluronic acid**, detmn. of, in enzymic degradation products, by h.p.l.c., 12D117
- Hyaluronidase**, detection of, in insect venom, by cation-exchange h.p.l.c., 4D331
- Hydantoin**, identn. of, by n.m.r., 5C59
- , **5-ethyl-5-phenyl-**, detmn. of enantiomers of, in plasma or blood, by g.l.c., 12D76
- , **5-(4-hydroxyphenyl)-5-phenyl-**, detmn. of, in biological materials, by h.p.l.c., 10D82

Hydantoin, detmn. of.—continued

- in urine, by h.p.l.c., 2D62, 2D64
- , **2-seleno-**, identn. of, by n.m.r., 5C59
- , **2-thio-**, identn. of, by n.m.r., 5C59
- Hydantoin derivatives**, detmn. of, in waste water, by g.l.c. and m.s., 2H71
- Hydralazine**, detmn. of, in blood, by h.p.l.c., 2D96
- detmn. of hydrazine in pharmaceuticals containing, by g.l.c., 3E38
- Hydralazine hydrochloride**, detmn. of, in tablets, by spectrophotometry, 7E36
- Hydraulic fluids**, detmn. of chlorine in, by n.a.a., 11C39
- Hydrazides**, detmn. of dicarboxylic acid, spectrophotometric, 3C20
- Hydrazine**, detmn. of, as salicylaldehyde derivative, by h.p.l.c. with electrochemical detection, 11B86
- 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- by voltammetry, 6B108
- in maleic hydrazide, by g.l.c., 4G34
- in pharmaceutical preparations containing hydralazine and isoniazid, by g.l.c., 3E38
- iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
- , **1,1-dimethyl-**, detmn. of, as salicylaldehyde derivative, by h.p.l.c. with electrochemical detection, 11B86
- , **2,4-dinitrophenyl-**, detection of traces of, spot test for, 6C28
- , **phenyl-**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- manganese^{III} in coulometric titrimetric, 12A7
- Hydrazine derivatives**, detmn. of, by coulometric titration with iodine, 5C35
- by h.p.l.c., pre-treated vitreous-carbon electrodes in, 4B119
- , **aryl-**, detmn. of, by titrimetry with phenyl iodosoacetate, 5C48
- Hydrazobenzene**, detmn. of, in phenylbutazone or sulphinyprazole, by h.p.l.c., 5E35
- Hydrazones**, **5-dimethylaminonaphthalene-1-sulphonyl-**, sepn. of, by h.p.l.c., 1C14
- , **2,4-dinitrophenyl-**, sepn. of, by h.p.l.c., 1C14
- Hydrocarbons**, analysis of, by near-i.r. reflectance spectrometry, 5J116
- in gasoline, by h.p.l.c. - g.l.c., 1C19
- analysis of groups of, in petroleum products, by h.p.l.c., 7C52
- analysis of mixtures of, by g.c., 5C63
- by turbidimetric titration, 11A16
- collection of, from natural and waste water, by filtration and centrifugation, 4H72
- detection of, by g.c., isolation methods in, 3C4
- in air, by g.c. with photo-ionization detection and f.i.d., 6H30
- detmn. of, in air, by g.c., 4H31
- instruments for, 6H31
- in environment, 6H80
- in fermentation gases, by g.s.c., 8D103
- in gases, semiconductor sensors for, 4J7
- in gasoline, by g.c., 8C56
- by h.p.l.c. - i.r. spectrometry, 4C55
- in natural and industrial gases, by g.c., 8C50
- in oil-refinery effluents, by i.r. spectrophotometry, standard methods for, 10H93
- in oilseeds, by g.c., 2G11
- in petroleum, by g.c., 11C34
- in soap-type lubricants, by t.l.c., 11C40
- in water, spectrophotometric, 8H94
- in water and waste water, by g.l.c., 3H75
- standard gas analyser for, 12J1
- detmn. of gaseous, laser detector for optoacoustic, 7C12
- detmn. of water in compressed gaseous, micro Karl Fischer, 9C48
- extraction of, from water and sediment, by stripping with nitrogen, 3H57
- extraction of petroleum, from water and biological tissues, 8H90
- identn. of, in maple syrup and eucalyptus, by g.l.c. - m.s., 3C60
- microprocessor in g.c., 5C67
- sepn. of, by g.l.c., stationary phase for, 7J60
- by g.s.c. and g.l.c., α - and β -cyclodextrins as stationary phases in, 10J72
- by micro-column h.p.l.c., 9J16
- in biological tissues, sediments and water, by h.p.l.c., 7H55
- , **aliphatic**, analysis of mixtures of branched, by g.c., 3C42
- detmn. of, in flue gases, 2H17
- , **halo-**, detection of, in air at hazardous-waste sites, sampler for, 5H6
- , **aromatic**, assay of tritium-labelled, by g.c., modified apparatus for, 12J70
- detection of, in air at hazardous-waste sites, sampler for, 5H6
- detmn. of, by low-temperature luminescence, 6J141
- in aircraft fuels, by g.c., 7C59
- in air of aluminium-reduction plants, sampler for, 5H5
- in flue gases, 2H17
- in gasoline, by g.c., 5C68, 8C56
- in sea-water, by g.c. or h.p.l.c., 8H77
- identn. of, by g.c., retention indices for, 9C25
- identn. of carcinogenic, in groundwater, by t.l.c., 11H63
- sampling of, in air, tube for, 11H26
- sepn. of, by g.c., stationary phase for, 7J62

Hydrocarbons, aromatic, sepn. of,—continued

- by g.c. on sodium and copper sulphates, 3C26
- by g.s.c., cyclodextrins and methylated cyclodextrins as stationary phases for, 10J71
- sepn. of mono-, di- and tri-cyclic, in petroleum, chromatographic, 11C41
- , **chloro-**, detmn. of, in serum, by g.l.c., 8D101
- in soil, avoidance of errors in, 7G15
- sepn. of, as by-products of chlorolysis processes, by g.c., 10C11
- by g.c., retention indices for, 10J46
- by g.l.c., optimization of, 12C9
- , **C₁ to C₁₆**, sepn. of, by g.s.c., 6J90
- , **C₁ to C₈**, detmn. of, in natural gas, by g.c., 5C64
- , **halo-**, cold-trapping of volatile, in g.c., 2C7
- detmn. of, by g.c., 7C13
- in air, by g.c., 1H18
- in drinking water, xylene as extractant for, 7H61
- in water, by g.c., 10H69
- by g.l.c., 10H73
- by head-space g.c., 6H84
- by purge closed-loop g.c., 11H58
- detmn. of trace, in air and water, by g.c., simplified purge-and-trap method in, 12H84
- detmn. of volatile, in natural and waste waters, by g.l.c., 6H83
- , **polycyclic aromatic**, detection of, by resonance Raman spectrometry, 12C35
- in turbine exhaust, by g.l.c., 3H27
- detmn. of, by fluorescence spectrometry, 2C33
- by g.c. - m.s. or g.c. - f.i.d., 7C44
- by g.l.c., column for, 4J70
- by h.p.l.c., large-volume wall-jet electrochemical detector for, 10C45
- by liquid chromatography, deoxygenation of mobile phases for, 12J26
- in aerosols, by g.l.c., 3H26
- in air, by g.c., 12J64
- by h.p.l.c. and g.c. - m.s., 6H39
- by liquid carbon dioxide extraction - g.c. - m.s., 9H32
- by t.l.c., 2H10
- in air-borne particulates, by g.l.c., 6H36
- by h.p.l.c. and g.l.c., 10H36
- by luminescence and phosphorescence, 11H28
- by thermal desorption - g.c., 10H37
- in atmospheric dusts, by g.c., 6H38
- in carbon black, chromatographic, 12C78
- in coal, by matrix-isolation fluorescence spectrometry, 5C77
- in coal tar, by g.c. - m.s., 2C52
- in crude petroleum, by h.p.l.c., 3C43
- in diesel exhaust, by g.l.c., 12H38
- by t.l.c. after fractionation, 12H32
- in environmental materials, by g.c., 3H1
- by h.p.l.c., 11H68
- in food, by capillary-column g.c. and h.p.l.c., 10F3
- review, 7F15, 8F1
- in incinerator emissions, in-stack dilution technique for, 11H27
- in industrial atmospheres, sampler for, 5H32
- in marine sediments, by h.p.l.c., review, 2H54
- in mixtures, by phosphorimetry, with synchronized scanning, 12J105
- in petroleum products and coal-oil products, by chromatography, 2C39
- in river water, by t.l.c. with pre-concentration, 10H83
- in soil, avoidance of errors in, 7G15
- in soot, by m.s., 6H34
- in total diets, by h.p.l.c., 6F10
- in vegetable oils, by t.l.c., 10F71
- in vehicle exhaust gases, by g.c. and g.c. - m.s., cryogenic technique in, 4H44
- in waste water, by h.p.l.c., 2H69
- by spectrofluorimetry, 5H96
- in water, by t.l.c. - fluorimetry, 10H82
- phosphorimetric, as inclusion complexes with cyclodextrins, 12C36
- X-ray and u.v. excitation in fluorimetric, 5E31
- detmn. of nitro-substituted, in diesel soot, by h.p.l.c. on micro-bore columns, 4H42
- detmn. of purity of reference materials of, 5A19
- detmn. of ring systems of, in coal-derived liquids, spectrofluorimetric, 11C49
- detmn. of trace, in air, by g.c., review, 6H6
- extraction of, from diesel soot, 6C41
- from water, polyurethan foams for, 12H91
- h.p.l.c. of, 9C35
- detector for, 8J31
- stationary phases for, 9C36
- identn. of, by g.c. - e.c.d., 3C36
- in air, by g.c. - m.s., 6H37
- in air-borne particulates, by h.p.l.c., 7H23
- in coal liquors and shale oil process waters, by dual-column g.l.c., 9C66
- in sediments and soils, 4H71
- identn. of amino-, in coal-derived products, chromatographic, 6C45
- identn. of monomethylated, in crude oil, by liquid chromatography - fluorimetry, 6C36

Hydrocarbons, polycyclic aromatic,—continued

- photoacoustic spectrometry of matrix-isolated, low-temperature, 12C40
- sampling of, in diesel exhaust, 9H31
- in exhaust gases, 4H45
- sepn. of, by g.c., 7C45, 7J59, 11C51
- by g.c. on graphitized carbon black, 11C29
- by g.l.c., 2J52
- liquid-crystal stationary phases for, 4C46
- polysiloxane stationary phases for, 4C43
- by high-performance t.l.c., effect of mobile-phase temp. in, 9J50
- by h.p.l.c., 3C37, 3J17, 9J18, 11J17
- correlation of retention data in, 8C40
- liquid - liquid phase systems in, 10J33
- selectivity of stationary phases for, 7C43
- by micro h.p.l.c., 7J17, 10J18
- by number of rings, by h.p.l.c., 7C61
- by open-tubular capillary liquid chromatography, 7J24
- by reversed-phase h.p.l.c., microcomputer-assisted retention-prediction system for, 11J32
- by t.l.c. with fluorescence detection, 8C39
- by t.l.c. with liquid carbon dioxide as mobile phase, 10J60
- from water, Chromosorb T as sorbent in, 12H81
- in synthetic fuels and coal liquid, by liquid chromatography on picric acid - alumina, 4C64
- sepn. of glutathione adducts of, by h.p.l.c., 2D119
- sepn. of isomers of, by capillary h.p.l.c., 11C26
- sepn. of isomers of amino-, by g.c., 12C34
- surface-sensitized luminescence of, 5J107
- thermal desorption of, from Tenax-GC, 6H35
- , **nitro-**, detmn. of, in combustion products of diesel oil by h.p.l.c. and capillary g.c. - m.s., 5C71
- sepn. of, by h.p.l.c., bonded-pyrene stationary phases for, 4H43
- Hydrochlorothiazide**, detmn. of, in body fluids and blood cells, by h.p.l.c., 12D102
- in combination with methyl dopa, in pharmaceutical preparations, by h.p.l.c., 7E35
- in feeds, by h.p.l.c. with u.v. detection, 12G5
- in presence of amiloride hydrochloride, by spectrophotometry, 1E36
- in tablets, by h.p.l.c., 3E48
- in urine, by h.p.l.c. with flow programming, 7D90
- by t.l.c. - spectrophotometry, 8D87
- Hydrocodone**, detmn. of, in serum, by g.l.c., 6D116
- Hydrocolloids**, detmn. of plant, in pharmaceutical and food products, by ion-exchange chromatography - spectrophotometry, 8E92
- Hydrocortisone**, detmn. of, by h.p.l.c., 2-t-butylanthraquinone in, 7E9
- in bulk drug and tablets, by h.p.l.c., 12E31
- in calf plasma, by h.p.l.c., 7D148
- in equine urine, by derivatization - g.c. - m.s., 10D77
- in erythrocytes, by r.i.a., 6D193
- in ointments and creams, by h.p.l.c., 4E53
- in pharmaceutical creams, by h.p.l.c., 1E18
- in plasma, by h.p.l.c., 9D57, 11D145
- in plasma or serum, by h.p.l.c. following solid-state extraction, 4D197
- in saliva, r.i.a. kit for, 4D198
- in serum, by h.p.l.c., 5D152
- by isotope-dilution m.s., 12D137
- by isotope-dilution m.s. and r.i.a., 7D149
- by r.i.a., 3D121
- inter-laboratory study of, 2D195
- reference material for, 5D143
- in serum and saliva, by polarization fluoro-immunoassay, 5D155
- in serum and urine, by affinity chromatography - h.p.l.c., 4D193
- in urine, by immunoassay - e.s.r., 1D116
- by spin immunoassay, 7D147
- detmn. of free, errors in, 3D9
- in plasma, by rate dialysis, 8D128
- in serum, by ultra-filtration - r.i.a., 3D119
- detmn. of steroid impurities in, by h.p.l.c., 12E32
- detmn. of unbound, in serum or plasma, effect of sample dilution on, 8D142
- purification of partly degraded radiolabelled, by partition, 8D129
- sepn. of, from other steroids of blood plasma, by h.p.l.c., 4D179
- Hydrocortisone 17-butyrate**, detmn. of, by r.i.a., 9D144
- Hydrogen**, depth profiling of, by proton-induced resonance reaction, 12B104
- detection of, metal - insulator - semiconductor diode for, 8J7
- with Schottky barrier diode, 5B27
- detmn. of, by activation with heavy ions, review, 12B10
- by n.m.r., cobalt-59 in, 2B8
- by resonance nuclear reactions induced by fluorine-19 or nitrogen-15 ions, 12B30
- by scattering of combination X-ray lines, 8B7
- hot hollow cathode device for spectral-isotopic, 12B13
- in air, proton-conductor sensor for, 6J6
- in biological materials, by vaporization - plasma emission spectrometry, 6D36
- in breath, by g.l.c., 4D28
- by g.s.c., instrument for, 6D26
- effect of sample storage on, 8D15, 8D16

Hydrogen, detmn. of.—*continued*

- in carbon dioxide, by spectrography, 5B133
in coal, char and coke, micro-analysers in, 5B278
in expired air, by g.c., interference by cigarette smoke in, 6D28
in gases, semiconductor sensors for, 4J7
in lithium - aluminium alloys, manometric, 10B56
in metal complexes, after combustion and selective trapping, 4C4
in metals, by nitrogen-15 bombardment - γ -ray detection, 12B29
review, 4B26
in nickel alloys, by m.s., 1B5
in organic compounds, by differential thermal conductivity, apparatus for, 12C4
by pyrolysis - g.c., 2C4
by sulphurization - g.c., 2C5
ICP - FT near-i.r. spectrometer system for, 12C5
removal of interference by phosphorus pentoxide in, 5C6
statistical evaluation of, 11C3
in organic fluoro-compounds, elimination of interference in, 9C9
in organomercury compounds, 11C2
in solids, calculation of atmospheric humidity in, 4B30
in soln., electrochemical, 5J168
in standard tetramethylammonium tetraphenylborate, 9A15
in steel, by extraction in inert medium, 4B164
in thin foils and films, by elastic recoil detection, 12B14
in uranium compounds, by inert-gas fusion, 4B95
in water, by g.c., 10H42
simultaneously with other elements in organic compounds, by pyrolysis - g.c., 12C3
detmn. of atomic, mixed-metal-oxide semiconductor detector in, 10J4
detmn. of diffusible and total, in steels and alloys, 8B20
detmn. of dissolved, in water and aprotic solvents, voltammetric, 12B27
detmn. of isotopes of, by g.c. with reduction gas detector, 10B22
detmn. of total, in human body, by neutron-capture gamma-ray analysis, 10D41
detmn. of trace, in gases, low-temp. sensor for, 8B19
in high-purity gases, by g.s.c., detector for, 7J69
Hydrogenase, assay of, by pH-stat method, 1D199
Hydrogen bromide, detmn. of, in combustion products of plastics, by g.l.c., 4B142
Hydrogen carbonate ion, detmn. of, in blood, effect of heparin in, 2D30, 2D31
heparin as source of error in, 4D44
in reagents and buffer soln., enzymic - spectrophotometric, 3A5
Hydrogen chloride, detmn. of, in air, laser systems for, 12H12
optoacoustic, 3H16
in combustion products of plastics, by g.l.c., 4B142
in presence of aluminium chloride, by potentiometry, 4B74
detmn. of trace elements in, by spark-source m.s. and a.e.s., 4A6
Hydrogen cyanide, detmn. of, calibration of detectors for, 3J3
in air, by spectrophotometry, 3H7
gas-sensing electrode for, 12J159
Hydrogen fluoride, detmn. of trace elements in, by spark-source m.s. and a.e.s., 4A6
Hydrogen ion, detmn. of, ion-selective electrode for, 9J131
Hydrogen peroxide, detmn. of, by enzymic spectrophotometry, 5B28
by flow enthalpimetry, manganese dioxide as catalyst in, 6B31
by Raman spectroscopy, dye in, 5B186
by reverse-pulse polarography, 6B30
by spectrophotometry, cobalt in, 4C9
during oxidation of glycerol to dihydroxyacetone, 7C20
in fish, oxygen electrode in, 5F27
in food, by spectrophotometry, 3F1
in pharmaceutical preparations, titrimetric, 1E33
in rain-water, by chemiluminescence, 11H35
in water, optoacoustic, 9H42
methyl acetoacetate in fluorimetric, 10B23
spectrophotometric, 7B21
detmn. of residual, on food-packaging materials, enzymic or titrimetric, 8F13
Hydrogen sulphide, detection of, in air at hazardous-waste sites, sampler for, 5H6
detmn. of, by laser absorption spectrometry, 2B66
in air, by g.l.c., interference in, 6H22
passive badge sampler for, 12H26
with ion-selective electrode, 8H17
in air and dust, by g.c., 4H29
in environment, review, 12H27
in zinc acetate soln., spectrophotometric, 7B96
reference methods for, 7H16
detmn. of trace, in water, by extraction - spectrophotometry, 11H49
monitoring of, in coke-oven gas, sulphide-ion-selective electrode for, 2B88
sepn. of, from fuel gases, 8C62
Hydromorphone, detmn. of, in biological fluids, by enzyme immunoassay and h.p.l.c., 11D42
Hydroperoxide, cumene, detmn. of, by spectrophotometry, cobalt in, 4C9
—, **cyclohexyl**, detmn. of, in cyclohexane oxidation products, by g.c., 10C32
—, **t-butyl**, detmn. of, by carbon-13 n.m.r., 7C15
—, **t-butyl**, detmn. of, by spectrophotometry, cobalt in, 4C9

- Hydroperoxides**, detmn. of, in fats and oils, iodimetric and polarographic, 12F42
—, **hexadecyl**, detmn. of, in hexadecane, by h.p.l.c., 3C6
Hydroponic fluid, detmn. of phosphate and nitrite in, by reverse flow-injection analysis, 7B87
Hydroxamic acids, detmn. of, by extraction as complex with titanium and spectrophotometry, 6B105
3-Hydroxyacyl-CoA dehydrogenase, assay of, in beef, 11F16
3-Hydroxybutyrate dehydrogenase, assay of, in rabbit and human kidney, by enzymic bioluminescence, 9D251
Hydroxy-compounds, identn. of polycyclic aromatic, by g.c. - e.c.d., 3C36
Hydroxy-groups, detmn. of, in coal, by i.r. spectrophotometry or ^{13}C n.m.r. spectrometry, 6C44
in lignin, by acetylation - saponification - g.c., 7C86
in polymers, 3C68
in polyurethan, by potentiometric titrimetry, 3C69
detmn. of terminal phenolic, in polycarbonates, by spectrophotometry, 7C93
Hydroxylamine, detmn. of, by voltammetry, 6B108
in presence of hydrazine, by flow-injection photometry, 5B164
Hydroxymethylglutaryl-CoA reductase (NADPH), assay of, by g.c. - m.s. of substrate derivatives, 12D227
Hydroxysilyl groups, detmn. of, on h.p.l.c. sorbents, 11J14
on silica gel, 5J25
Hymecromone, detmn. of, and its conjugates, in plasma or serum, by h.p.l.c., 7D84
Hyoscine, detmn. of, in pharmaceutical preparations, by h.p.l.c., 12E49
in tablets or injections, by second-derivative u.v. spectrophotometry, 7E7
sepn. of, from atropine, by reversed-phase ion-pair chromatography, 9E2
Hyoscine butylbromide, detmn. of, liquid-membrane electrode for, 2J115
Hyoscine hydrobromide, detmn. of, liquid-membrane electrode for, 2J115
study of stability of, in plastic containers, by isothermal testing, 3E6
Hypaconitine, detmn. of, in *Aconitum kusnezoffii* and *A. carmichaeli*, by h.p.l.c., 11E9
Hyperoside, detmn. of, in *Crataegus* preparations, by h.p.l.c. and t.l.c., 10E15
Hypochlorite, detmn. of, by polarography, 1B11
Hypoglycaemics, identn. of, on amine-impregnated Silica gel G, 7E40
Hypophosphite, detmn. of, by oxidation - potentiometric titration, 11B91
in plating soln., by ion chromatography, 8B80
Hypothalamus, detmn. of catecholamines and their metabolites in, by h.p.l.c., 6D206
Hypoxanthine, detmn. of, by ion-exchange chromatography, 6D277
in cerebrospinal fluid, by h.p.l.c., 2D222
in fish, enzyme sensors in, review, 5D4
enzymic, 1F13
in heart, by h.p.l.c., 2D217
in insect eggs, by h.p.l.c., 10D239
in plasma and urine, by h.p.l.c., 4D288
in serum and urine, by h.p.l.c. with enzyme reactors, 5D226
detmn. of carbon-14-labelled, in erythrocytes, by h.p.l.c., 11D220
sepn. of, by ion-pair h.p.l.c., 12D211
—, **erythro-9-(2-hydroxy-3-nonyl)-**, detmn. of, in serum and urine, by r.i.a., 3D78
Hypoxanthine phosphoribosyltransferase, assay of, in cell lysates and intact cells, by h.p.l.c., 4D296

I

- Ibuprofen**, detmn. of, by coulometric titration, 8E54
by methylation and g.c., 7E22
in plasma, by g.l.c., 6D82
in serum, by g.l.c., 12D78
sepn. of isomers of, by h.p.l.c., 8E67
Ice, detmn. of sodium, potassium, sulphate, nitrate, chloride and ammonium ions in, by ion chromatography, 8H43
Ice-cream, analysis of lipids in, 7F50
detmn. of *N*-(4-ethoxyphenyl)urea in, by spectrophotometry, 3F7
detmn. of monoglycerides in, by g.l.c., 11F7
1-Iditol dehydrogenase, assay of, in erythrocytes, by fluorimetry, 6D292
1-Iduronic acid, detmn. of, by h.p.l.c., 5D118
Ifosfamide, detmn. of, in plasma and urine, by g.l.c., 2D110
Ilmenite, detmn. of vanadium in, by spectrophotometry, 4B167
Imidazole, 2-(2,4-difluorophenyl)-4,5-bis-(4-methoxyphenyl)-, detmn. of, in plasma and urine, by h.p.l.c., 5D73
Imidazole derivatives, detmn. of, by electrophoresis and chromatofocusing, 9D166
in *Casimiroa edulis*, by h.p.l.c., 8E5
Imidazolidine-2-thione, detmn. of, in grapes, wheat and wine, by capillary g.c., 10G21
in mancozeb, by h.p.l.c., 5G39
in pesticides, by g.c., 4G29
detmn. of residues of, in vegetables, by h.p.l.c., 9G23
—, **4-methyl**, detmn. of, in biological materials, by g.l.c., 3D89
in vegetables, fruit and beer, 8G14
Imidazoles, alkyl-, sepn. of, by h.p.l.c., 4C72
Imidazole-2(3H)-thione, 1-methyl-, analysis of cuprous complexes of, by thermogravimetry and d.t.a., 8C47

- 2H-Imidazol-2-one**, **1,3-dihydro-4-methyl-5-[4-(methylthio)benzoyl]-**, detmn. of, and its sulphoxide metabolic, in plasma, by h.p.l.c., 11D93
- , **4-ethyl-1,3-dihydro-5-isonicotinoyl-**, detmn. of, in plasma and urine, by h.p.l.c., 7D81
- Imidazo[4,5-f]quinoline**, **2-amino-3-methyl-**, detmn. of, in cooked beef, by h.p.l.c., 1F7
- Imino-acids**, detmn. of, by ion-exchange chromatography with post-column derivatization, 4D214
- Imipramine**, detmn. of, by liquid chromatography, 6E40
by rotating-disc-electrode voltammetry, 7E24
in biological material, by g.l.c., 4D106
in dosage forms, by spectrophotometry as picric acid complexes, 1E26
in pharmaceutical preparations, sodium tetraphenylborate in potentiometric, 3E20
in plasma, by g.l.c., 9D70
by h.p.l.c., 2D81, 7D69, 10D93
in plasma and urine, by t.l.c., 6D99
in serum, by h.p.l.c., 4D107
in serum or plasma, by g.l.c., 6D100
in tablets, by ion-pair h.p.l.c., 8E63
- Imipramine hydrochloride**, detmn. of, in pharmaceutical preparations, 3E28
- Immunoassay**, antibody overlay technique for two-dimensional electrophoretic, 9D8
apparatus for, 10J9
chemiluminescence, bioluminescence and solid-phase antigen luminescence techniques for, 7D8
chemiluminescent energy transfer in, 4D6
continuous-flow system for automated latex-bead, 1D154
co-operative, for chorionic gonadotrophin and other antigens, 8D8
electrodes for potentiometric ionophore-modulation, in detmn. of digoxin antibodies, 12D10
fluorescent phycobiliprotein conjugates in, 4D5
for detection of antigens on nitrocellulose by immunoblotting, 3D181
homogeneous optical, 10D210
immunoperoxidase techniques for, review, 3D4
index of kits for, review, 3D5, 3D7
inhibition of activity of conjugates of peroxidase in, by sodium azide, 6D11
kits for, 4D9
labelled-antibody, review, 6D2
laser photoacoustic detection in, 3D185
ligand differentiation technique for automated analysis, 3D117
luminescence, as alternative to r.i.a., 4D18
macro solid phases for, immobilization of protein conjugates, antibodies and haptens on, 6D8
model immunoprecipitin reaction for, 10D203
particle concentration fluorescence, detmn. of murine IgG by, 10D10
radiometric, 8D6
reagent for preparation of labelled conjugates in, 3D183
review, 3D2
sensitive luminescence assay for horse-radish peroxidase as label in, 3D6
stability of EMIT calibration graphs in, 9D2, 9D3
time-resolved fluorescence, review, 11D2
- Immunodiffusion**, rapid de-staining in, 10J52
- Immunoelectrophoresis**, first-antibody - enzyme zone, in detmn. of α -foetoprotein, 6D255
rapid de-staining in, 10J52
- Immunoglobulin A**, detmn. of, in biological fluids, immunochemical, automated analyser for, 12J9
in serum, automated immunoturbidimetric, 10D214
- Immunoglobulin E**, detection of, in rat serum, by r.i.a. and ELISA, 12D192
detmn. of, by enzyme-linked immunosorbent assay, 1D165
in blood and serum, by r.i.a., 2D197
in serum, by enzyme immunoassay, 5D206
by rate nephelometry, 2D199, 2D200
by r.i.a., inter-laboratory study of, 2D195
review, 7D199
detmn. of bovine, in serum, by enzyme immunoassay, 7D198
- Immunoglobulin G**, detmn. of, by optical immunoassay, 10D210
by polarography, 2D201
by time-resolved fluorimunoassay, with europium label, 10D8
in biological fluids, immunochemical, automated analyser for, 12J9
in cerebrospinal fluid, 6D235
in presence of detergents, by electroimmunodiffusion, 4D255
in serum, automated immunoturbidimetric, 10D214
by affinity chromatography, 3D200
by chemiluminescent energy-transfer immunoassay, 4D6
detmn. of anti-gliadin, by r.i.a., 11D206
detmn. of murine, by particle concentration fluorescence immunoassay, 10D10
- Immunoglobulin M**, detmn. of, in biological fluids, immunochemical, automated analyser for, 12J9
in cerebrospinal fluid, by enzyme immunoassay, 6D256
in cerebrospinal fluid and serum, by enzyme immunoassay, 3D204
in serum, automated immunoturbidimetric, 10D214
- Immunoglobulins**, detection of, in hybridoma secretions, by micro-stick r.i.a., 2D204
detmn. of, immunochemical assays for, review, 10D211
in serum, by affinity chromatography, 3D200
by immunoturbidimetry, 5D203
- Immunohistochemistry**, enzymic labelling of antibodies for, review, 7D4
- IMP dehydrogenase**, assay of, radiochemical, 5D234
- Indan-1,3-dione**, **2-acyl-**, identn. of Schiff bases derived from, by t.l.c., 10C43
- Indanols**, detection of, in coal-derived liquids, by g.c. - m.s., 11C52
- Indazole-3-carboxylic acid**, **N¹-(2,4-dichlorobenzyl)-**, detmn. of, in plasma and urine, by h.p.l.c., 6D124
- 1H-Indene-1-carboxylic acid**, **5-benzoyl-2,3-dihydro-6-hydroxy-**, detmn. of, in plasma and urine, by g.l.c., 6D86
- Indenolol**, detmn. of, in plasma and urine, by h.p.l.c., 7D79
- Indicators**, aromatic amines and diamines as, for complexometric and pptn. titrations, 1B12
thermochromic, for titrimetry, 10A9
- , **acid - base**, 1,4-dihydroxyanthraquinone as, 11A13
- , **metallochromic**, azo-derivatives of naphthalene-2,7-diol as, 3A7
for zinc, 2-[2-(butyryldrazido)naphthylazo]-5-nitrophenol as, 5B63
- , **metallofluorescent**, immobilized calcein as, 12A4
- Indium**, detmn. of, by a.a.s., non-resonance lines in, 9B93
by a.a.s. of hydride, 8B49
by coulometric complexometric titration, 9B189
by coulometric titration with EDTA, 4B20
by polarography, ϵ -caprolactam as complexing agent in, 5B255
by sub-stoichiometric isotope dilution, 8B48
in alkali-metal chlorides, by a.a.s., 3B23
in bismuth indium telluride, by complexometry, 4B202
in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
in lead - tin slag and aluminium alloy, by spectrophotometry, 5B84
in presence of aluminium and gallium, sulpharsazen in spectrophotometric, 3B49
in presence of bismuth, extraction - spectrophotometric, 9B108
in presence of cadmium, indirect polarographic, 7B57
in tin, by differential scanning calorimetry, 1J122
in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
ion-selective electrode for, 6J176
3-(2-quinolylazo)pyridinediol in, 5B85
reagents for spectrophotometric, 6B74
spectrophotometric, 9B57
detmn. of cadmium in, by extraction - differential pulse anodic-stripping voltammetry, 11B37
by stripping voltammetry, 6B75
masking agent for spectrophotometric, 2B28
detmn. of impurities in, by spectrography, 5B86
detmn. of trace, in liquid samples, pre-concentration method for, 9B8
detmn. of trace cadmium and copper in high-purity, polarographic, 9B65
extraction of, from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
sulphoxides in, 10B57
with dithiocarbamates, 6B22
purpurin as reagent for, 5B25
sepn. of, by flotation as phosphate complex, 12B52
by ion flotation, 4B17
from tin, activated carbon as adsorbent in, 10B16
- Indium-111**, sepn. of carrier-free, from α -irradiated silver, 11B100
- Indium phosphide**, analysis of, by coulometric complexometric titration, 9B189
by proton-activation analysis, 12B186
- Indolamines**, analysis of degradation products of, by h.p.l.c., 5D164
detmn. of, in biological materials, by h.p.l.c., 10D157
- Indole**, detmn. of, 2,4-dinitrotoluene in, 2A5
in hake muscle, spectrophotometric, 10F34
identn. of, in uraemic serum, by h.p.l.c., 1D122
- Indole alkaloids**, identn. of, in hallucinogenic mushrooms, by h.p.l.c., 5E13
in *Uncaria rhynchophylla* Miq., by h.p.l.c., 7E4
sepn. of enantiomers of, by inclusion chromatography on β -cyclodextrin bead polymer, 5E12
- Indole-2-carboxylic acid**, **5,6-dihydroxy-**, detmn. of, in urine, by h.p.l.c. - fluorimetry, 1D133
- Indole derivatives**, detection of, in faeces and saliva, by g.l.c., 3D91
detmn. of, by flow injection - chemiluminescence, 9C40
identn. of, in uraemic serum, by h.p.l.c., 1D122
- , **5-hydroxy-**, detmn. of, in plasma, by liquid chromatography, 8D154
- Indomethacin**, detmn. of, and its metabolites in urine, by h.p.l.c., 11D70
in pharmaceutical preparations, by h.p.l.c., 12E35
in plasma, by g.c. - m.s., 5D62
by g.l.c., 6D82
by h.p.l.c., 6D83
in plasma and urine, by g.l.c., 6D87
- , **O-demethyl-**, detmn. of, in plasma and urine, by g.l.c., 6D87
- Industrial chemicals**, detmn. of, in food, by g.c., 7J65
- Industrial hygiene**, detmn. of benomyl and carbendazim in, by h.p.l.c., after extraction from dermal dosimeters, 1G14

- Industrial materials**, analysis of, by radioisotopic and radiometric methods, 11A1B
 characterization of, by FT i.r. spectrophotometry, review, 8J101
- Industry**, chemical hazards in, 7A27B
- Infant formulae**, detmn. of lactose in, automated spectrophotometric, 10F37
 detmn. of PCB and DDE in, by extraction - g.c., 10D113
 detmn. of phyloquinone in, by h.p.l.c., 4F42
- Inhalants**, analysis of, by g.l.c., 2E17
- Inks**, analysis of, by PIXE, 7D13
 by t.l.c., 4C98
 detmn. of, in air of newspaper printing rooms, 6H40
 identn. of, by micro-spectrophotometry, 7C101
- Inorganic analysis**, acid pressure decomposition in, review, 10A5
 by a.a.s., review, 6B14
 by spectrophotometry, 6J123
 h.p.l.c. in, review, 3B4
 m.s. in, review, 6B15
 organic reagents in, in China, review, 3A1
 polarography and voltammetry in, review, 9B7
- Inorganic compounds**, detmn. of, by paper chromatography, 4B1
 in hexamethylphosphoric triamide, half-wave potential for electrochemical, 1A3
 in residues from diesel exhaust gases, 11H14
 detmn. of copper, iron, titanium, vanadium and niobium in high-purity, kinetic, 6B18
 detmn. of non-metallic, kinetic, review, 6B1
 hetero-poly, in analytical chemistry, 7B5
- Inorganic pyrophosphatase**, assay of, by flow-injection analysis, 5D246
 cation-selective electrodes in, 6D309
- Inosine**, detmn. of, by ion-exchange chromatography, 6D277
 by polarography, 6D279
 in heart, by h.p.l.c., 2D217
- , 2-deoxy-**, detmn. of, by spectrophotometry, diphenylamine in, 5D217
- Inosine 5'-monophosphate**, detmn. of, in femtomole range, enzymic, 5D220
- Inositols, O-methyl-myo-**, sepn. of, by reversed-phase h.p.l.c., 4D152
- Insect attractants**, detmn. of pheromones in, by cold-trapping and bioluminescence, 3G23
- Insect growth regulators**, detmn. of, by h.p.l.c., 8G17
- Insect-proofing agents**, detmn. of, on wool, by h.p.l.c., 4C88
- Insects**, detection of fragments of, in cereal products, colour test for, 10F26
 in plants, stains for, 9F12
 identn. of hormones and pheromones of, by reaction gas chromatography, 1G21
- Insect venom**, detection of enzymes in, by cation-exchange h.p.l.c., 4D331
- Instrumental analysis**, precision-dependent calibration in, 4A13
 statistical procedure for long-term retrospective quality control of, 8A13
 symposium, 11A3B
- Instrumentation**, in China, review, 3J1
- Insulating materials**, detmn. of trace elements in, by spark-source m.s., 4B10
 detmn. of water and organic solvents in, by dynamic head-space g.c., 5C111
 detmn. of water in, by titrimetry, 9C59
- Insulating oils**, detmn. of water in, by titrimetry, 9C59
- Insulin**, adsorption of, on container walls, surfactants in prevention of, 12E30
 detmn. of, by enzyme immunoassay, electrode in, 5D51
 by h.p.l.c., 1D159, 10D180
 in human serum, by sandwich enzyme immunoassay, 8D196
 in pharmaceutical preparations, 9A2B
 in plasma, by r.i.a., 3D167, 3D169
 in serum, by r.i.a., 4D235, 5D190
 inter-laboratory study of, 2D195
 in serum and plasma, by r.i.a., stabilization of immunoreactivity at ambient temp. in, 2D182
 identn. of contaminant in, by h.p.l.c. and classical methods, 6D244
 sepn. of bovine, ovine, equine and porcine, by h.p.l.c., 8D179
 sepn. of mono-iodinated tracers of, by h.p.l.c., 8D178
 sepn. of radio-iodinated tracers for, by h.p.l.c., 2D185
- Insulins**, sepn. of, by h.p.l.c., 3D192
- Integrators**, for chromatography, 1J19
- Interferon**, immunoassay of monomers and oligomers of, 4D262
- Interplanetary materials**, analysis of, electron microscopic and microprobe, 10A4B
- Inter- α -trypsin inhibitor**, detmn. of, in biological fluids, antisera for immunochemical, 4D318
- Intestinal tissue**, assay of fructose-bisphosphate aldolase in, radioisotopic, 6D302
- Iodate**, detmn. of, by ion chromatography, 9J38
 by spectrofluorimetry, 1B113
 in presence of periodate or bromate, titrimetric, 12B131
 in sea-water, spectrophotometric, 9H60
 iron^{III} and ferrocyanide in spectrophotometric, 10B133
- Iodide**, detmn. of, as impurity in organic compounds, by h.p.l.c., 12B132
 as pentafluorobenzyl derivatives, by g.c., 6B24
 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- Iodide**, detmn. of, —continued
 by argentometry, indicator for, 4B23
 by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
 by ion chromatography with electrochemical and conductometric detection, 7B104
 by ion chromatography with quenched-phosphorescence detection, 12B103
 by potentiometric titration, electrode for, 8J124
 by quenching of fluorescence, sensors for, 12B129
 by spectrophotometric titration, 5B209
 in ground water, by h.p.l.c., 1H36
 in halide mixtures, by controlled-potential pulsed-current potentiometric titration, 11J145
 in milk, by XRF spectrometry, 7F56
 in natural water, electrometric, 9H62
 in potable water, colorimetric, 10H61
 in presence of bromide, chloride and fluoride, argentimetric, 10B131
 in sea-water, by oxidation - extraction radio-tracer method, 7H51
 spectrophotometric, 9H60
 in soil, by h.p.l.c., 10G9
 in table salt, by potentiometric titration, 1F18
 in urine, with selective electrode, interference by chloride in, 1D32
 iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
 ion-selective electrodes for, 12J153
 detmn. of radio-, in air, silver-containing sorbents for concentration of, 11H18
 sepn. of, from chloride and thiocyanate, by ion-pair h.p.l.c., electrochemical detector for, 8J37
- Iodine**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
 detmn. of, by a.e.s. with ICP, 7B107
 by optogalvanic detection, 1B114
 in air, solid-state electrochemical sensor for, 5H27
 in biological samples, by n.a.a., 5D35
 in foods and nutritional products, by differential pulse polarography, 7F11
 in glass, by potentiometric titration, 12B179
 in milk and milk chocolate, by h.p.l.c., 7F58
 in organic compounds, by ion chromatography after sodium fusion, 4C6
 in pharmaceutical organic compounds, by potentiometric titration, 1E17
 in potable water, colorimetric, 10H61
 in rice, by n.a.a., 5F16
 in semiconductors, by n.a.a., 5B286
 in serum, by n.a.a., 10D44
 in soln. with other halides, by fluorescence quenching, 5J110
 in tablets for mercury - halogen lamps, 12B187
 in thyroid, by radioactive-implant-induced X-ray emission, 10D45
 in water, by n.a.a., 5H47
 instrumental, review, 7H29
 detmn. of protein-bound or free, by spectrophotometry, 5D233
 detmn. of radio-, in air, silver-containing sorbents for concentration of, 11H18
 detmn. of radioactive, in air, high-volume sampler for, 10H29
 detmn. of trace, by catalysis - spectrophotometry, 11B122
 in chloride soln., by spectrophotometric titration, 11B121
 in food and biological reference materials, by n.a.a., 9F4
- Iodine-123**, detmn. of, in radiopharmaceuticals, by h.p.l.c., 6E5
- Iodine-129**, detmn. of, in milk, by X-ray spectrometry, 7F59
 in natural samples, by activation analysis, effect of iodine-127 on, 8B107
- Iodine-131**, detmn. of, in radiopharmaceuticals, by h.p.l.c., 6E5
 extraction of, by isotopic exchange on anion-exchange resin, 5B210
 sorption of, from natural water, on polyurethane, pulse techniques for, 2H50
- Ion exchange**, anionic resin intermediates for, detmn. of quaternary ammonium nitrogen in, by titrimetry, 4C96
 annular filament-filled perfluorosulphonate membrane for cation, helical flow in, 8J41
 in radioanalytical chemistry, distribution coeff. and chromatograms for, 10J121
- , materials for**, antimony acid as, 9J40
 crown ether polymer as, for sepn. of uranium, 5B117
 crown ether - tungstophosphoric acid ppt. as, 11B20
 detmn. of titanium in, photometric, 6B102
 detmn. of tungsten in, by γ -ray absorption, 7B101
 hydrated antimony pentoxide as, optimized prep. of, 12J49
 hydrous antimony sulphide as, 9J44
 hydrous titanium dioxide as, sepn. of bivalent metal ions by, 7J48
 in detmn. of chromate, 9B127
 in h.p.l.c., 3J21
 in sepn. of proteins and nucleic acids, 3J37
 iron^{III} molybdate as, 2J30
 lanthanum arsenate as, 9J41
 membranes as, for photometry, 1B92
 modification of anionic, with PAN, 1B19
 mutarotation catalysts in, 3C13

Ion exchange, materials for,—continued

poly-(1-silsequioxan)siloxanemethanethiol) as, 12B43
 potassium- and zinc-selective tantalum tungstate and basic tantalum sulphate as, 5J43
 quadrivalent-metal antimonates as, 6J51
 resins, anion-exchange, calorimetric study of hydration of, 2I31
 resin with bonded quinolin-8-ol as, 3J38
 silica-based, 6J48
 stannic arsenoantimonate as, 9B139
 titanium^{IV} tungstoarsenate as, in sepn. of rubidium, 8B25
 zirconium^{IV} and titanium^{IV} arsenophosphates as, 6J50
 zirconium arsenophosphate as, selectivity of heat-treated, 10J49
 γ-zirconium di(hydrogen phosphate) as, for alkali-metal ions, 9J42
 zirconium phosphate, uranyl zinc phosphate and uranyl zinc molybdo-phosphate as, 11J35

Ion micro-probe analysis, computer control in, software for, 7J104
 high-energy, review, 12J135

Iothalamate, detmn. of, in biological fluids, by h.p.l.c., 11D105

Iothalamic acid, detmn. of, in plasma and urine, by h.p.l.c., 9D48

Ioxynil, detmn. of, in barley, by h.p.l.c. with spectrophotometric or electrochemical detection, 9G22

Iphigenia spp., detmn. of colchicine in, by paper chromatography, 6E12

Iprnidazole, detmn. of, in animal feeds, by g.l.c., 6G23

Iridium, detmn. of, by extraction - a.a.s., 3B107

by flotation - spectrophotometry, 4B189

by ICP a.e.s., 8B10

by photometry, 1B148

1,5-diphenylcarbazine in spectrophotometric, 8B125

in nickel, nickel ores and nickel sulphide, by chemiluminescence, 4B179

in ores and flotation tailings, by a.a.s., 9B160

in presence of palladium, by a.a.s., 1B146

in rocks, by n.a.a., co-pptn. with tellurium in, 5B250

in silicate rocks, by n.a.a., *NN'*-dibenzylidithio-oxamide in, 12B85

in soln., by XRF, 5B263

kinetic colorimetric, 10B169

4-octylaminopyridine in extraction - spectrophotometric, 12B171

spectrophotometric, 9B172, 9B173

extraction of, 1-carbonyl-3-thioxo-compounds in, 2B82

sepn. of, from other platinum-group metals, 7B134

by h.p.l.c., 10J34

from rhodium, bis-(2-ethylhexyl) sulphoxide in reversed-phase

paper-chromatographic, 5B249

by t.l.c. on DEAE- or ECTEOLA-cellulose, 5B254

Iridium alloys, detmn. of osmium and ruthenium in, extraction -

spectrophotometric, 11B151

Iridoid glycosides, m.s. and g.c. - m.s. of, review, 8D105

Iridoids, m.s. and g.c. - m.s. of, review, 8D105

Iron, analysis of, by PIXE, calculation of uncertainties in, 5J77

by XRF, review, 6B155, 6B156

concn. of traces of, by complexation with tiron and anion exchange,

5B23

detection of, by adsorption as 1,10-phenanthroline complex on cation

exchanger, 8B110

in lithium niobate, by laser-induced fluorescence, 8B140

detection of trace, in textiles, colorimetric, 11C71

detmn. of, after pre-concentration on Norit A as di-(2-pyridyl) ketone

2-pyridylhydrazine complex, 5B223

arsenazo III in spectrophotometric, 6B146

as complexes with organic compounds, by optoacoustic spec-

troscopy, 4B18

1,5-bis-(2-carboxyphenyl)carbazine in spectrophotometric, 2B17

1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrim-

etric, 9A17

bromopyrogallol red and tetradecyltrimethylammonium bromide in

spectrophotometric, 11B128

by a.a.s., reagent for, 4B15

by chelatometric titration, removal of phosphate in, 11B23

by complexometric titration, indicator for, 4B152

by complexometry, 7B15

by controlled-potential pulsed-current potentiometric titration,

11J145

by flow-injection analysis - spectrophotometry, 12J13

by flow injection - spectrophotometry, 12B26

by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-

dithiocarbamates, 1B13

by h.p.l.c. of 4-(2-pyridylazo)resorcinol chelate, 10B135

by h.p.l.c. - spectrophotometry, 9B144

by paper chromatography - a.a.s., 10B3

by photometry, nitroso-R salt in, 4B151

by potentiometry, EDTA and ion-selective electrode in, 4B29

by spectrophotometric titration with EDTA, 5B222

by spectrophotometry, 1B119, 5B215, 5B217

effect of surfactants on, 5B218

reagent for, 6B150

by spectrophotometry with biguanides and cyanide, 5B221

by spectrophotometry with di-2-pyridyl ketone pyrimidin-2-ylhydraz-

one, 4B16

by spectrophotometry with disodium 3-hydroxy-4-(6-methyl-2-

pyridylazo)naphthalene-2,7-disulphonate *N*-oxide, 4B150

Iron, detmn. of,—continued

by spectrophotometry with 2-hydroxy-3-methylcyclopent-2-en-1-one

thiosemicarbazone, 5A8

by titrimetric paper chromatography, 6B148

by voltammetry, as complex with alkylxanthate and nitrogen base,

5B24

by voltammetry of alkylxanthate or dialkyldithiocarbamate com-

plexes, 9B141

by XRF, calculation of relative intensities in, computer program for,

5A34

C. I. Mordant Blue 3 in spectrophotometric, 3B10

cinnamohydroxamic acids in spectrophotometric, 2B4

complexometric, 10C27

di-2-pyridyl ketone 2-benzothiazolylhydrazine in spectrophotome-

tric, 2B70

di-2-pyridyl ketone 2-quinolylhydrazine in spectrophotometric,

10B138

N-(di-2-pyridylmethylene)ethylenediamine in spectrophotometric,

7B117

ethyl 3-anilino-2-cyano-3-oxopropionate in titrimetric and spectro-

photometric, 7B119

extraction - photometric, 9B142

extraction - spectrophotometric, 7B120, 9B140

ferrozine in spectrophotometric, 12B144

hexamethylphosphoramide in gravimetric, 12B138

2-hydroxy-3-methylcyclopent-2-enone thiosemicarbazone in spectro-

photometric, 12B141

in alloys, phenanthrenequinone thiosemicarbazone in spectropho-

tometric, 1B118

in aluminium, by anodic-stripping voltammetry, 6B71

by ICP a.e.s., 6B69

in aluminium alloys, by spectrophotometry, 1B45

in aluminium and its alloys, by flameless a.a.s., 9B58

in aluminium and magnesium, spectrophotometric, 3B92

in aluminomagnesium spinel, by XRF, 4B195

in aq. soln., by flow-injection analysis, with u.v. and refractive-index

detectors in series, 4B28

in aq. sulphuric acid, by coulometry, 1J121

in beans, by ion chromatography, 5F2

in beer, by a.a.s., 8F58

in binary mixtures, by spectrophotometry, 5B214

in biological materials, by XRF, effect of sample-dissolution

procedures on, 1D33

in biological tissues, by a.e.s., optimization of volatilization in, 5D37

in blood, by instrumental n.a.a., 8D13

in boric acid, by a.a.s., 5B73

in brown coal, by X-ray technique, 5B274

by XRF and X-ray backscattering, 11B161

in canned fish, by a.a.s., 7F45

in carbide inclusions in steel, by a.a.s., 3B93

in cement, ores and rocks, mercaptoacetic acid in spectrophotome-

tric, 7B116

in Chinese cabbage, by a.a.s., digestion methods for, 10F51

in coal, by differential pulse polarography, 8B132

by scanning electron microscopy - energy-dispersive X-ray

spectrometry, 5C79

in copper alloys, by spectrophotometry, 5B41

spectrophotometric, 11B27

in copper- and nickel-plating soln., photometric, 3B90

in copper-based alloys, by a.a.s., 4B48

in crude oil, by a.a.s., 8C52

in cumene hydroperoxide, by spectrophotometry, 5C43

in eggs, by a.a.s., 2F22

in environmental materials, phenanthrene-9,10-quinone monoxime

in colorimetric, 11B126

in erythrocytes and plasma of pregnant women, by PIXE, 12D17

in feeds, stopped-flow colorimetric, 8G7

in feldspar and lime, by a.a.s., 3B110

in ferrocene and derivatives, by flameless a.a.s., 11C4

in ferrocenium, by enthalpimetry, 5B234

in fruit juices and drinks, by a.a.s., 12F30

in glasses and glazes, by fast-atom-bombardment m.s., 10B176

in glass sand and silica brick, by spectrophotometry, data reduction

and calibration for, 2A17

in green or red peppers, by a.a.s., 12F27

in hair, by PIXE, 4D55

in high-purity inorganic compounds, kinetic, 6B18

in human, cow's and powdered milks, by a.a.s., 11F20

in humic acids, by nitrosation - pulse polarography, 9H67

in indium phosphide, by proton-activation analysis, 12B186

in industrial wastes, by polarography, 5B12

in iron alloys and salts, by spectrophotometry, 1B117

in iron chelate concentrates and fertilizers, by a.a.s., 2G9

in iron-ore concentrates, by XRF, 11B130

in iron oxide pigments, 6C60

in lanthanoid oxides, by spectrography, pre-concentration procedure

for, 4B80

in lithium fluoride, by extraction - spectrophotometry, 11B21

in lubricating oils, by a.a.s., 9C56

by emission spectrometry, 4C57

Iron, detmn. of.—continued

- in luminophores, by a.a.s., 1B167
- in maize oil, by a.a.s., sample preparation for, 2F42
- in manganese ores, by oscillography, 5B212
- in milk-protein concentrates, reproducibility of, 5F30
- in minerals, by spectrophotometry, reagent for, 2B69
- by XRF, correction of particle size effect in, 4J91
- ores and rocks, by a.a.s., 4B194
- in mixtures, by spectrophotometry, 6B20
- in motor oil, by a.a.s., 4C58
- in natural waters, by a.a.s., 12H72
- in nickel ores, by radiative neutron capture, 12B156
- in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
- in orchard leaves, by ICP a.e.s., 5J99
- in ores, by γ -activation, 3B89
- extraction - spectrophotometric, 7B122
- in ores and alloys, spectrophotometric, 5B219
- in paper and its products, by a.a.s., 10C74
- in paper ash, complexometric and spectrophotometric, 12C62
- in petroleum pitch, by low-temperature plasma ashing - graphite-furnace a.a.s., 1C24
- in plants, by a.a.s. and emission spectrography, 5D24
- by hydrochloric acid extraction, 11G1
- in potable waters, by a.a.s., 10H64
- in presence of alcohols, by a.a.s., 8B36
- in presence of mercury, copper or cadmium, by spectrophotometry, 4B153
- in presence of thallium, by titrimetry, 1B51
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in river water, coffee and tea, by spectrophotometry, 4H69
- in sea- and waste water, by solvent extraction - XRF, 11B13
- in sea-water, pre-concentration method for, 11H53
- in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- in semiconductor-grade silicon, by a.a.s., 6B95
- in serum, by automated analysis, 12D52
- by automated colorimetry, 4D61
- by flotation extraction - spectrophotometry, 12D53
- by flow injection - ICP a.e.s., 10D20
- by PIXE, 12D45
- by radioassay, 10D47
- by XRF, 5D15
- ferene in spectrophotometric, 12B140
- ferene-S and ferrozine in spectrophotometric, 9D36
- in presence of nickel and copper, by spectrophotometry, 1B120
- reagent for spectrophotometric, 2D47
- in serum from renal dialysis patients, by spectrophotometry, 1D34
- in sheet glass, 7B151
- in silicate materials, by extraction - absorptiometry, 11B75
- in silicate rocks, by spectrophotometry, 5B141
- in silicates, by a.a.s., solubilization in, 1B155
- in silver nitrate, by a.a.s. after sepn. from silver, 9B29
- in soil, 5G10
- colorimetric, 12G3
- in steel, by XRF, correction for interference in, 12B149
- in table salt, 8F49
- in tears, by a.a.s., 2D15
- in titanium alloys, by ICP a.e.s., 12B94
- in tomatoes and tomato products, by a.a.s., 12F28
- in tungsten, by catalytic polarography, 1B106
- in urban aerosols, by XRF, 6H13
- in urine, spectrophotometric, 9D35
- in used lubricating oil, by a.a.s., 6C42
- in uterine tissue, by PIXE, 5D36
- in vegetables, X-ray spectroscopic, 6F59
- in waste water, by XRF, 7H73
- in water, by a.a.s., 1H26
- by ion flotation - spectrophotometry, 10H62
- by spectrophotometry, 6B149
- spectrophotometric, sample preservation system for, 9H64
- standard for, 2H51
- in waters and alkali-metal chlorides, extraction - fluorimetric, 3B88
- in wine, by flame photometry and a.a.s., 12F36
- in zinc and cadmium sulphides, by extraction - spectrophotometry, 9B46
- extraction - spectrographic, 10B45
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodiimide, 5B44
- in zinc - lead ores, by XRF, 11B36
- iobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
- luminescence of iron-activated alumina phosphors in, 7B118
- nitro-derivatives of 2-benzoylindan-1,3-dione in spectrophotometric, 7B19
- nitroso-R salt in spectrophotometric, 9B143
- N-phenylbenzohydroxamic acid as indicator in titrimetric complexometric, 10B142
- 1-phenyl-3-thiobenzoyl-2-thiourea in spectrophotometric, 5B220
- pre-concentration on anion-exchange resin for spectrophotometric, 6B147

Iron, detmn. of.—continued

- pulse voltammetric, superposition principle in, 12A17
- reagent for polarographic, 10B139
- reagents for spectrophotometric, 8A5
- salicylaldehyde thiosemicarbazone in fluorimetric, 10B137
- 2-salicylideneaminobenzohydroxamic acid in complexometric, 10B140
- simultaneously with copper^{II}, by spectrophotometry, 7B25
- simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
- spectrophotometric, 8B111, 8B113
- o-tolidine in spectrophotometric, 12B143
- 2',3',4'-trihydroxyazobenzene-4-sulphonic acid in spectrophotometric, 12B142
- 2,4,6-trihydroxydithiobenzoic acid in spectrophotometric, 10B134
- zwitterionic surfactant in spectrophotometric, 8B112
- detmn. of aluminium in, by graphite-furnace a.a.s., 7B124
- detmn. of bismuth and lead in, by a.a.s., 1B130
- detmn. of bound, in tea and coffee, by h.p.l.c. with post-column derivatization, 6F70
- detmn. of calcium and magnesium in cast, by a.a.s., 3B94
- detmn. of carbon, nitrogen and oxygen in, by laser m.s., 12B21
- detmn. of carbon in, by i.r. spectrophotometry, 11B133
- combustion - gravimetric, 11B132
- detmn. of cerium in cast, spectrophotometric, 11B137
- detmn. of chromium in, by potentiometric titration, 11B135
- detmn. of cobalt in, spectrophotometric, 7B130
- detmn. of copper, nickel, cobalt and zinc in nodules containing manganese and, by a.f.s., 4B19
- detmn. of copper and nickel in, photometric, 11B140
- detmn. of different oxidation states of, by flow-injection analysis, 5B216
- detmn. of ferrioxamine-bound, in urine, colorimetric, 8D31
- detmn. of manganese, niobium, phosphorus, titanium and sulphur in, by ICP a.e.s., 12B146
- detmn. of oxygen in gases from manufacture of, with zirconia-based electrochemical cells, 9B149
- detmn. of phosphorus in, by spectrophotometry, 11B134
- detmn. of rare-earth metals in, spectrophotometric, 9B147
- detmn. of soluble, in water, filtration methods for, 8H61
- detmn. of trace, in tungsten, by flame spectrometry and polarography, 7B102
- detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
- review, 11B131
- detmn. of trace tin in, by hydride-generation a.a.s., 12B145
- detmn. of tungsten in, by polarography, 11B142
- detmn. of zirconium in, by spectrophotometry, 1B121
- extraction of, alkylquinolin-8-ols in, 8B8
- from aq. soln., with cyclohexanecarboxylic acid, 5B225
- from carbonate soln., alkylcatechol in, 5B126
- from sediment and soil, effect of extractant pH on, 12H48
- from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
- tall oil and pyridine in, 12B25
- g.c. of, as chelates with hexadentate Schiff bases, 5B224
- measurement of free acidity in soln. of, by standard addition method, 12B28
- pre-concentration of, by sorption on ferric oxide, 5B19
- sepn. of, as complex with 4-hydroxybenzoic acid, on anion exchanger, 6B23
- by chromatography, reagents for, 5B22
- by ion flotation, 4B17
- from copper, extractant for, 8B18
- in minerals, 5B226
- from other metals, by liquid chromatography with hydroxamic acids as stationary phases, 5J26
- polystyrene-based chelating resin for, 3B19
- sepn. of colloidal from ionic, on iron^{III} oxide-impregnated silica gel, 10B141
- sepn. of β -diketone complexes of, by t.l.c., 5B14
- sepn. of oxidation states of, by t.l.c., 3B20
- sepn. of radiotracers of, by h.p.l.c., 10B19
- solvent extraction of, 4B27
- sorption of ionic and colloidal, on silica gel, 10B65
- surface density measurement of thin films of, by XRF, 4J93
- , cast, detmn. of carbon in, by Compton scattering of X-rays, 8B116
- detmn. of graphite in, radioisotopic, 5B228
- detmn. of lanthanum and cerium in, by XRF, 7B123
- detmn. of lead and bismuth in, by a.a.s., 8B121
- detmn. of phosphorus in, eutectic cooling curve in, 4B155
- , pig, detmn. of phosphorus in, eutectic cooling curve in, 4B155
- Iron alloys, analysis of, by Auger electron spectroscopy, 9B150
- by emission spectrography, standards for, 10B148
- analysis of cerium-containing, by enthalpimetry, 5B234
- detmn. of aluminium and titanium in, by complexometric titration, 6B157
- detmn. of aluminium in tungsten-containing, by indirect complexometric titration, 9A16
- detmn. of boron in, by a.a.s., 12B137
- detmn. of cobalt in, colorimetric, 9B153
- detmn. of iron in, by spectrophotometry, 1B117

Iron alloys—continued

- detmn. of nitrogen in silicon-containing, decomposition methods for, 6B109
- detmn. of sulphur in, by m.s. as arsenic monosulphide ion, 12B119
- detmn. of vanadium in nickel-containing, by extraction - polarography, 9B151
- detmn. of zinc in, 8B120
- Iron carbide**, analysis of, by electron-probe micro-analysis, 7B125
- Iron(II)**, detmn. of, in presence of iron^{III}, spectrophotometric, 11B127
- in silicate rocks, titrimetric, 11B78
- violuric acid in spectrophotometric, 3B91
- detmn. of oxidizable, in sea-water, controlled-potential coulometric, 12H73
- sepn. of, from iron^{III}, by cation-exchange chromatography, 8B114
- , **tris-(1,10-phenanthroline)-**, detmn. of, laser thermal lensing detection in colorimetric, 9B116
- Iron(III)**, detmn. of, 4'-ethoxy-2'-hydroxyacetophenone oxime as indicator in complexometric, 10B136
- in presence of iron^{II}, spectrophotometric, 11B127
- isotachopheresis of, 6B145
- sepn. of, from iron^{II}, by cation-exchange chromatography, 8B114
- Iron(II) sulphate**, detmn. of, by titration with manganese, 10A10
- Iron ores**, analysis of, by laser micro-spectrography, standards for, 5B229
- detmn. of iron in, by spectrophotometry, 5B220
- extraction - spectrophotometric, 7B122
- detmn. of metals in, by XRF, 11B130
- detmn. of nickel and cobalt in laterite, by XRF, 6B152
- detmn. of phosphorus in, spectrophotometric, 11B129
- detmn. of rare-earth metals in, by spectrophotometry after extractive sepn., 5B227
- detmn. of sulphur in, by potentiometric titration, 2B72
- detmn. of trace elements in, 8B117
- by a.a.s., pre-concentration for, 6B151
- by XRF, 8B115
- Iron oxide**, detmn. of, in slag, by XRF, 4B158
- detmn. of iron^{II} in pigments based on, 6C60
- Iron oxide (FeO)**, detmn. of, in biotite, by micro-probe, regression equations for, 10B173
- Iron oxides**, detmn. of, in red mud, review, 1B47
- extraction of amorphous, from soils and sediments, 7B121
- Iron pentacarbonyl**, detmn. of, in tobacco smoke, by FT i.r. spectrometry, 2D48
- Iron salts**, detmn. of iron in, by spectrophotometry, 1B117
- Isoamyl alcohol**, detmn. of pyridine in, dimedone bis(amidinothiazone) in spectrophotometric, 11B25
- Isoamylamine**, detmn. of, in wine, by h.p.l.c., 5F52
- Isoamylase**, assay of, in urine, serum or saliva, centrifugal analyser in, 1D225
- Isoascorbic acid**, detmn. of, simultaneously with vitamin C, in foods and beverages, by h.p.l.c. with pre-column derivatization, 11F4
- Isoborneol, 2-methyl-**, detmn. of, in drinking water, by g.c. - m.s., 4H75
- Isobutyl alcohol**, detmn. of, in brandy, by g.l.c., 8J52
- Isobutylamine**, titration of, coulometric generation of protons in, 4C25
- Isobutyric acid**, detmn. of, by g.c., 3C14
- by g.c. and h.p.l.c., 4F16
- by h.p.l.c., electrokinetic detector for, 4C18
- by h.p.l.c. with electrokinetic detection, 4C19
- in air, by g.l.c., stationary phases for, 8H23
- in presence of other acids, by g.l.c., 8D115
- in waste water, by g.l.c., 3H77
- Isoocyanates**, detmn. of trace, in air, by g.c., review, 6H6
- Isoocyanic acid**, detmn. of, in air, by g.c. with thermionic nitrogen detection, 9H16
- Isododecane**, detmn. of, in presence of tributyl phosphate, by h.p.l.c., 1C11
- Isoelectric focusing**, in sepn. of proteins, 11J42
- errors in, 11D186
- preparation of immobilized pH gradients for, 11J44
- rapid de-staining in, 10J52
- review, 2J32
- ultra-thin-layer polyacrylamide gels in, prevention of distortion in, 11J40
- Isoflavones**, analysis of, by h.p.l.c., 10C46
- detmn. of, in *Cicer arietinum*, by h.p.l.c., 5G6
- Isoleucine**, sepn. of enantiomers of, by droplet counter-current chromatography, 8D168
- Isomethol**, detmn. of, in inhalants, by g.l.c., 2E17
- Isomers**, sepn. of, by circulation g.c., 4J54
- Isoniazid**, detmn. of, and its acetyl derivative, in plasma and serum, by h.p.l.c., 12D94
- by flow-injection analysis - voltammetry, 2C28
- by potentiometric titration, with potassium chlorate, 4C32
- by spectrophotometry, after complexation with chloranil, 4E56
- by titrimetry with phenyl iodooacetate, 5C48
- in biological fluids, by h.p.l.c., 6D118
- in formulations, by spectrophotometry, 1E34
- in pharmaceutical preparations, flow-injection, electrode in, 3E39
- titrimetric, 3E40
- in plasma, blood or urine, by h.p.l.c., 6D119
- in presence of ascorbic acid, 6E53

Isoniazid, detmn. of,—continued

- manganese^{III} in coulometric titrimetric, 12A7
- manganese^{IV} in titrimetric, 12E54
- metol and cerium^{IV} in spectrophotometric, 10C41
- detmn. of hydrazine in pharmaceuticals containing, by g.l.c., 3E38
- , **acetyl-**, detmn. of, in plasma, blood or urine, by h.p.l.c., 6D119
- Isonicotinaldehyde hydrate**, as analytical reagent, 6A1
- Isosinotroline**, detmn. of, by spectrophotometry in acid medium, 11E51
- Isonixin**, detmn. of, in plasma, by h.p.l.c., 2D75
- Isopentanoic acid**, detmn. of, in presence of other acids, by g.l.c., 8D115
- Isopentyl alcohol**, detmn. of, in brandy, by g.l.c., 8J52
- Isophthalate**, detmn. of, in urine, by g.c., 10D124
- Isoprenaline**, detmn. of, by flow-injection analysis, 5A42
- colorimetric, 10E30
- flow-injection spectrophotometric, 3A13
- Isoprenaline sulphate**, detmn. of, in plasma and urine, by h.p.l.c., 11D87
- Isoprene**, sepn. of lower acyclic oligomers of, by gel-permeation chromatography, 10C85
- Isoprene derivatives**, detmn. of isomers of, by g.l.c., 1C5
- Isopropyl nitrate**, sampling of, in air, sorbents for, 2H30
- Isoputrescine**, detmn. of, in urine, by capillary g.c., 12D160
- Isoquinoline**, detmn. of, in cigarette smoke, by g.l.c., 8D157
- Isoquinoline derivatives, tetrahydro-**, sepn. of, from dopamine, by chromatography, 5D166
- Isoquinolinium chloride, 2-(β-hydroxyiminophenethyl)-**, detmn. of, by potentiometric titration, 7E41
- Isosorbide**, detmn. of, in urine, by g.l.c., 6D65
- Isosorbide acetate**, detmn. of, by t.l.c., 10E34
- Isosorbide dinitrate**, detmn. of, and its metabolites, in plasma, by g.l.c., 9D85
- in pharmaceutical preparations, by h.p.l.c., 5E44
- in plasma, by g.l.c., 11D92
- by h.p.l.c., 6D112
- in tablets, spectrophotometric, 11E36
- Isosorbide 2-mononitrate**, detmn. of, in plasma and urine, by g.c. - e.c.d., 8D69
- Isosorbide 5-mononitrate**, detmn. of, in plasma and urine, by g.c. - e.c.d., 8D69
- Isosorbide mononitrates**, detmn. of, in plasma, by g.l.c., 11D92
- Isosorbide nitrates**, detmn. of, by t.l.c., 10E34
- sepn. of, by h.p.l.c., 1E28
- Isotachopheresis**, automated data acquisition and control system for, 6J53
- capillary, radiometric detection in, 3J41
- detection in, 9J48
- detectors for, conductometric, 3J42
- u.v. absorption, 3J43
- modular instrumentation for capillary, 2J36
- review, 2J35, 2J37, 8J38, 8J45
- Isothiocyanate, allyl**, detmn. of, by colorimetry, 6G13
- Isothiocyanates**, detmn. of, by titrimetry with mercapto-ethanol or -ethylamine, 4C8
- , **aromatic**, detmn. of, by potentiometric titration., 7C42
- Isothiocyanato-compounds**, detmn. of, in oilseed residues, 8G8
- Isotopes**, detection of radioactive, in contaminated seaweed, by X-ray spectrometry, 9D14
- detmn. of β- and γ-emitting, in binary mixtures, detector-ratio and discriminator-ratio methods in, 5J148
- Isotopic analysis**, analogue-to-digital ratio-meter for, 8J5
- by spectrometry, 6B13
- resonant-light-pressure deceleration - laser fluorescence in, 11J101
- Isovanillic acid**, sepn. of, by t.l.c., mobile phases for, 5C45
- Isoxazole, 3-amino-5-methyl-**, detmn. of, spectrophotometric, 8E82
- Isoxicam**, detmn. of, in urine and plasma, by h.p.l.c., 8D63
- Isosuprine**, detmn. of, in plasma, by g.l.c. with e.c.d., 7D83
- Isosuprine hydrochloride**, detmn. of, in pharmaceutical preparations, molybdophosphoric acid in spectrophotometric, 11E19
- Itaconic anhydride**, sepn. of, by g.l.c., 4C27
- Ivermectin**, detmn. of, in cattle tissues, by m.s. - m.s., 11D102

J

- Jack bean**, detmn. of canavanine in, fluorimetric, 10G14
- Jackfruit**, identn. of volatile compounds of, by g.c. - m.s., 3F19
- Jaffe reaction**, stoichiometry and kinetics of, picrate-selective electrodes in study of, 4D210
- Jams**, detmn. of benzoic acid and sorbic acid in, by t.l.c., 11F10
- detmn. of glucose in, by flow enthalpimetry, 8F51
- detmn. of patulin, citrinin and aflatoxins in, by t.l.c., 8F44
- Jet fuels**, detmn. of aromatic hydrocarbons in, by g.c., 7C59
- Jewellery**, detmn. of palladium in, by spectrophotometry, 4B182
- Jojoba oil**, analysis of, by m.s. - m.s., 9C89
- Juvenile hormone I**, detmn. of, in boll weevils, by h.p.l.c., 7D141
- Juvenile hormones**, detmn. of, by r.i.a., review, 8G18

K

- Kadethrin**, detmn. of, in spray formulations, by h.p.l.c., 12G17
- Kaempferol**, detmn. of, in *Ononis spinosa*, by h.p.l.c., 7D203

- Kaempferol**, detmn. of, —continued
in food, by fluorimetry, 1F4
- Kallikrein**, assay of, by h.p.l.c. with continuous-flow enzymic detection, 2D234
in urine, by immunoabsorption - fluorimetry, 5D251
assay of porcine pancreatic, peptide thioesters and 4-nitroanilides as substrates for, 12D243
- Kanamycin**, detmn. of, in biological fluids, spectrophotometric, 12D69
in blood, milk or urine, by pptn. and spectrophotometry, 8E37
in dosage forms, by spectrophotometry of dihydrolutidine derivatives, 8E36
- Kaolin**, particle size analysis of, 11J148
- Kapok**, detmn. of cyclopropanoic acids in seeds of, micro-method for, 4G5
- Keratins**, identn. of, in wool, radio-labelling by amidination and electrophoresis for, 4D256
- Kerosene**, detection of alkylbenzenes in, by g.c. - m.s., 9C52
detmn. of, in phosphoric acid, by g.c., 5B168
measurement of stability of, by detmn. of oxygen absorption, 4C56
- Ketanserin**, detmn. of, in plasma, by h.p.l.c., 2D97, 6D115
—, reduced, detmn. of, in plasma, by h.p.l.c., 6D115
- Ketazolam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
- Ketoconazole**, detmn. of, in plasma or serum, by h.p.l.c., 11D101
in serum, by h.p.l.c., 8D81
- Ketone, ethyl methyl**, detmn. of, in air, by g.c., 3H24
in insulating materials, by dynamic head-space g.c., 5C111
detmn. of residual, in oils and waxes, by g.l.c., 5C73
- Ketones**, analysis of, by h.p.l.c. on strong cation-exchange resin, 12C1
detection of, basic dyes for, 6C3
decolorized dyes for, 6C2
in air at hazardous-waste sites, sampler for, 5H6
detmn. of, by g.c. with direct aq. injection, 10C2
in complex mixtures, by g.c., 6C40
in Fischer - Tropsh products, by g.l.c. and liquid chromatography, 8C7
in reaction mixture from sulphation of secondary aliphatic alcohols, by liquid chromatography, 4C30
in urban air, by g.c., 6H27
in urine, with test strips, review, 1D2
detmn. of cyclic, by chromatography, calculation of retention vol. in, 4C39
detmn. of macrocyclic, in odour glands of civet cats, by g.l.c., 9D112
detmn. of water in, with modified Karl Fischer reagents, 4C15
sepn. of, by h.p.l.c. as dansylhydrazones, 1C14
—, amino-, sepn. of isomers of, by g.c., 9C21
—, polycyclic aromatic, detection of, in air and smoke, by h.p.l.c. and g.c. - m.s., 5H33
- Ketoprofen**, detmn. of, in dosage forms, by differential pulse polarography, 7E21
in plasma, by g.l.c., 6D82
- Ketoses**, detmn. of, by h.p.l.c., 5C20
- Khellin**, detmn. of, in pharmaceutical preparations and *Ammi visnaga* fruit, by h.p.l.c., 9E14
- Kidney**, assay of *N*-acetyltransferase in, substrate for colorimetric, 11D242
assay of fatty acyl-coenzyme A oxidase in, by fluorimetry, 3D255
assay of fructose-bisphosphate aldolase in, radioisotopic, 6D302
assay of glucose-6-phosphate dehydrogenase and 3-hydroxybutyrate dehydrogenase in, by enzymic bioluminescence, 9D251
detmn. of antibiotics in, *Bacillus stearothermophilus* in microbiological, 8F26
detmn. of arsenic in, by wet digestion - a.a.s., 5D31
detmn. of ATP in, by h.p.l.c., 10D237
detmn. of cadmium in, by XRF analysis *in vivo* with plane-polarized X-rays, 10D32
detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
detmn. of chloramphenicol in, by g.l.c., 4D82
detmn. of doxepin and its metabolites in, by t.l.c. and g.l.c., 3D57
detmn. of ethanediol in, by oxidation - reduction - g.c., 10D116
detmn. of ethioheptazine in, by g.l.c., 6D85
detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
detmn. of halofuginone in, by h.p.l.c., 8F28
detmn. of lipids in, by t.l.c. - densitometry, 4D170
detmn. of malonyl-coenzyme A in rat, enzymic, 11D218
detmn. of sodium in, electrode for, 2D14
detmn. of thallium in, by a.a.s., 8D25
detmn. of trace elements in, by a.a.s., 12D12
detmn. of tritoyl phosphate and its metabolites in, by h.p.l.c., 8D92
detmn. of triethyl phosphate in, by t.l.c. - spectrophotometry, 11D111
detmn. of uric acid in chicken, by h.p.l.c., 10D242
detmn. of vitamin B₆ compounds in, by h.p.l.c., 11D225
identn. of folyl polyglutamates in, by gel electrophoresis, 7D233
- Kinetic analysis**, in enzymic analysis, 7D5
- Kiwi fruit**, detmn. of pesticides in, by g.l.c., 2F33
- Krill**, detmn. of inorganic anions in, by suppressed-ion chromatography, 11B12
- Krypton-85**, detmn. of, in air, by chromatography - liquid scintillation, 6H15, 6H16
- Krypton-85**, detmn. of, in air, —continued
by trapping - liquid scintillation counting, apparatus for, 10H19
in emissions from nuclear installations, by γ -ray spectrometry, 4H16
in environmental samples, by proportional and liquid scintillation counting, 4H3
- Kynurenic acid**, identn. of, in uraemic serum, by h.p.l.c., 1D122
- Kynurenine, 3-hydroxy-**, detmn. of, in plasma, by anion exchange - h.p.l.c., 10D171

L

- Labetalol**, detmn. of, in formulations, 6E42
in plasma, serum or blood, by h.p.l.c., 8D65
detmn. of diastereoisomers of, by h.p.l.c. of dansyl derivatives, 7E32
detmn. of racemic components of, by g.l.c. as butaneboronates, 6E50
- Laboratories**, for analytical microscopy, design of, 5J67
- Laboratory apparatus**, application of piezoelectric microbalances, 7J13B
cells, for analysis of capillary blood, 9D7
condenser, for distillation of used organic solvents, 12J6
flasks, for improved heating and boiling, 10J3
for acid pressure decomposition, review, 10A5
for micro-filtration, 5J8
glassware, machines and reagents for, cleaning of, 6J2
Kjeldahl, 7F2
nanolitre sample dispenser, 4D7
pipettes, microprocessor-controlled, for preparation of standards, 8J3
variable-volume microlitre, 5J4
pipettes and bottles, for Babcock method, 6F40
piston burette, 7J2
pressure bomb, for dissolution of alumina, 12B59
quartz glass ampoules, analysis of gases in, 1B164
safety cabinet, for hazardous clinical analysis, 3J6
small furnace, 3J2
trap, for detmn. of carbon-14 dioxide, 4D43
viscometer, automated, for flow-injection analysis, 6J15, 6J16
- Laccase**, assay of, by h.p.l.c., 4D301
- Lacquers**, identn. of dyes in nail, by extraction - t.l.c., 12C57
- α -Lactalbumin**, sepn. of, in milk, gel-permeation or anion-exchange chromatographic, 2F26
- Lactate**, detmn. of, in biological tissues, by proton n.m.r., for estimation of post-mortem time, 6D157
in blood, enzymic - fluorimetric, 7D123
in dialysis or infusion soln., by h.p.l.c., 8E91
in erythrocytes, centrifugal analyser in, 4D20
in lake sediment, by h.p.l.c. and g.l.c., 9H72
in milk and milk powder, enzymic, 7F54
in milk products, enzymic, 1F15
in plasma, kinetic, 9D115
in plasma or serum, centrifugal analyser in kinetic enzymic, 4D158
in serum, by potentiometry, electrode for, 9J137
membrane electrodes for, 11J132
detmn. of carbon-13-labelled, in blood, by g.c. - m.s., 12D123
- L-(+)-Lactate**, detmn. of, in blood, spectrophotometer for, 5D126
- Lactate dehydrogenase**, assay of, immuno-, review, 5D235
in biological materials, amperometric, 10D248
in plasma, platelet interference in, 12D225
in serum, by nitrogen laser-excited fluorimetry, 7D237
enzyme sensors in, review, 5D4
reagent strips and reflectance spectrometry in, 12D229
in urine, by electrophoresis, 1D202
stability-indicating, 3D246
assay of isoenzyme 1, in serum, immunochemical, 8D233
assay of isoenzyme C₄ of, in semen, bichromatic analyser in spectrophotometric, 2D228
assay of isoenzymes of, 4D299, 4D300
by anion-exchange chromatography, 1D201
by electrophoresis, staining reagent for, 7D239
by r.i.a., iodination in, 5D233
in plasma and erythrocytes, 6D295
in serum, by immunoelectrophoresis, 8D232
assay of isoenzymes of human, by electrophoresis - fluorimetry, 7D236
sepn. of isoenzymes of, in serum, by ion-exchange chromatography, 4D312
- Lactic acid**, detmn. of, and pyruvic acid, in water, by polarography, 7H63
by g.c. and h.p.l.c., 4F16, 9F19
in egg products, by g.l.c., as indicator of spoilage, 11F19
in foods, by h.p.l.c., 12F3
in plasma, by g.l.c., 6D160
in presence of other acids, by g.l.c., 8D115
in silage, by colorimetry, 7G19
in wine, by paper chromatography, 4F72
detmn. of isomers of, in dental plaque, enzymic, 9D122
g.c. - m.s. of TMS derivatives of, 9C8
sepn. of, by paper chromatography, 11C11
—, indol-3-yl-, identn. of, in uraemic serum, by h.p.l.c., 1D122
—, 3-(1-naphthyl)-, detmn. of, in plasma, by h.p.l.c., 1D56
—, 3-phenyl-, sepn. of enantiomers of, by g.c., preparation of derivatives for, 5C26
- Lactic acid sodium salt**, detmn. of, in pharmaceuticals, thermometric titrimetric, 12E7

- Lactic acid zinc salt**, detmn. of calcium in, by a.a.s., 12B48
- Lactoglobulins**, sepn. of, in milk, gel-permeation or anion-exchange chromatographic, 2F26
- Lactones**, analysis of, of *Piper methysticum*, by h.p.l.c., 9D113
- detmn. of sesquiterpene, by h.p.l.c., 3D101
- Lactose**, detection of, in illicit narcotics, by g.l.c., 11E4
- detmn. of, in bakery products, enzymic, 4F24
- in breakfast cereals, by h.p.l.c., 6F29
- in food, by h.p.l.c. and g.l.c., 12F4
- in foods and beverages, amperometric, 2F4
- in milk, 7F53
- by h.p.l.c., 11F23
- clarification procedure for, 4F40
- in milk powder, by diffuse-reflectance i.r. spectrophotometry, 2F28
- in milk products, 4-hydroxybenzohydrazide in automated spectrophotometric, 10F37
- in milk-protein concentrates, reproducibility of, 5F30
- in yogurt, by g.l.c. of TMS derivatives, 4F47
- sepn. of, by h.p.l.c., 2C13
- Lactose dehydrogenase**, assay of isoenzymes of, by spectrophotometry, 6D294
- Lactose synthase**, assay of, in serum, by ELISA, 6D301
- Lactoyl-glutathione lyase**, assay of, in blood and yeast, 8D255
- Lactucin**, detmn. of, in chicory root, by h.p.l.c., 9D154
- Lactulose**, detmn. of, in urine, enzymic, 10D118
- Laevulinic acid**, detmn. of, in tablets, by h.p.l.c., 5E43
- , 5-amino-, detmn. of, by isotachopheresis, 3D215
- in biological fluids, by g.l.c., 11D173
- in urine, 4D273
- Lamtidine**, detmn. of, in plasma and urine, by r.i.a., 5D89
- Lanatoside C**, detmn. of, by t.l.c., 8E18
- in *Digitalis lanata* Ehrh., 4E19
- in tablets, by t.l.c., 11E11
- Lanolin**, identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
- Lanthanum**, detmn. of, 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol in spectrophotometric, 10B64
- by amperometric titration, 6B83
- by coulometric titration with EDTA, 4B20
- by extraction - n.a.a., 6B84
- by h.p.l.c. with voltammetric detection, 6B82
- by reversed-phase paper chromatography, 2B35
- by spectrophotometry, reagent for, 4B81
- by triple-wavelength spectrophotometry, 6B80
- by X-ray spectroscopy, 11B44
- in alloys, in presence of aluminium, by spectrophotometry, 6B68
- in alloys with nickel, by complexometric titration, 5B99
- in cast iron, by XRF, 7B123
- in monazite sand, by spectrophotometry, 11B46
- in ores, by polarography of catalytic wave, 10B63
- in steel, by spectrography, hollow-cathode discharge tube for, 5B236
- in tellurium, by n.a.a., 1B103
- in uraniferous rock, by instrumental n.a.a., 5B96
- by n.a.a., 10B61
- extraction of, in presence of perchlorate, diantipyrylmethane in, 5B97
- tall oil and pyridine in, 12B25
- purpurin as reagent for, 5B25
- sepn. of, by cation exchange on silica, 12B2
- from other metals, by liquid chromatography with hydroxamic acids as stationary phases, 5J26
- from strontium, by column chromatography on manganese dioxide, 4B64
- from thorium, by ion flotation, 4B86
- resin in, 2B38
- Lanthanum-139**, detmn. of, in thorium - uranium dioxide nuclear fuel, by h.p.l.c. - spectrophotometry, 12B71
- Lanthanum oxide**, detmn. of terbium in, dipicolinic acid in spectrofluorimetric, 7B65
- Lanthanum oxybromide**, detmn. of terbium in, dipicolinic acid in spectrofluorimetric, 7B65
- Lard**, detmn. of peroxidized fatty acids in, iodimetric and polarographic, 12F42
- detmn. of triglycerides in, by h.p.l.c. - m.s., 4F75
- sepn. of triglycerides in, by t.l.c., 4F78
- Lasalocid**, detection of, by t.l.c. - m.s., 8J51
- Laser micro-probe mass analysis**, 10A4B
- atmospheric ionization of solid and liquid samples in, 12J126
- in isotopic analysis, 6J162
- in study of corrosion, 12J121
- of organic compounds, review, 7C1
- Lasers**, in analytical chemistry, review, 8J70
- in environmental monitoring, review, 8H5
- tunable, low-cost, in chemical analysis, 3J69
- Lead**, concentration of, from tap-water, 5H55
- concn. of traces of, by complexation with tiron and anion exchange, 5B23
- detection of, in gas phase, review, 9H1
- detmn. of, amperometric titrimetric, 10B13
- by a.a.s., 12B19
- graphite cells for, 10J90
- improved sensitivity in, 12B89
- Lead**, detmn. of, —continued
- non-resonance lines in, 9B93
- by a.a.s. after co-pptn. with naphthalene, 9B40
- by a.a.s. with concentric-tube atomizer, 9B11
- by a.a.s. with laser evaporation, matrix interference in, 11J88
- by a.e.s., source in, 5J94
- by a.f.s. with tungsten-spiral atomizer, 10J102
- by amperometric titration, reagents for, 5B148
- by amperometry, 5B17
- by anodic-stripping voltammetry, 5J190, 6B17
- automatic compensation for cathode area in, 3J118
- by automated stripping chronopotentiometry, 9B94
- by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
- by conductometric titration with 3,5-xylydine-*N,N*-diacetate, 5B13
- by coulometric titration, 8B9
- by e.s.r. spectrometry, 6B59
- by flow-injection potentiometric stripping, 9J139
- by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
- by g.c. as dialkylthiocarbamate chelates, 1B14
- by graphite-furnace a.a.s., interference by chloride in, 10B17
- vaporization in, 10B86
- by ICP a.e.s., 9J102
- by paper chromatography - a.a.s., 10B3
- by peak paper chromatography, 4B55
- by reduction - indirect potentiometry, 8B82
- by spark-source m.s., pre-concentration on aluminium powder in, 3B12
- by surface coverage measurement on graphite-rod atomizer in a.a.s., 9J87
- by titration, with quinoline-8-thiol and its methyl derivatives, 4B113
- by voltammetry, effect of nitro-compounds and surfactants on, 7B13
- ethyl violet in extraction - spectrophotometric, 8B72
- in air, by differential pulse anodic-stripping voltammetry, 5H14
- by PIXE, 10H3
- effect of alkalinity of filters on, 11J8
- in air-borne dust, by anodic-stripping voltammetry, 12H17
- in air-borne particulates, by a.a.s., 3H6
- by flame a.a.s., 2H13
- in air polluted by road traffic, 5H15
- in aluminium, water or sediment, by spectrophotometry, 6B101
- in aluminium alloys, by a.c. polarography, 1B44
- in aluminium - cadmium - nickel alloy, by polarography, reagent for, 4B114
- in apple juice and evaporated milk, by anodic-stripping voltammetry, 7F63
- in atmospheric pptn., 8H54
- in beef and bovine organs, by voltammetry, 12D37
- in beer, by a.a.s., 8F58
- in beneficiation products of ores, by a.a.s., 9B9
- in biological and environmental materials, by voltammetry, 12D24
- in biological fluids, by a.a.s., review, 6J130
- in biological materials, by a.a.s., 12A8
- by extraction - h.p.l.c., 12D29
- by isotope dilution - m.s., 12D27
- reproducibility and quality control in, 1D25
- in biota, by a.a.s., 12D108
- in blood, by a.a.s., 5D27
- automation of, 9D29
- by a.a.s. and voltammetry, 12D38
- by a.a.s. with second-surface atomization, 9J90
- by electrothermal a.a.s., 2D32
- by electrothermal a.a.s. with pyrometric feed-back, 9J95
- by flame a.a.s., 2D33
- by ICP a.e.s., sample treatment for, 12D30
- by porous-layer electrochemistry, 7D21
- liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
- urine and waters, by flame a.f.s., 6D42
- in bone, by ICP a.e.s., 2D10
- by XRF, 6D41
- dry-ashing losses in, 10D38
- in bone meal, by differential pulse anodic-stripping voltammetry, 2G10
- in bronze and brass, by a.a.s., 3B35
- in canned fish, by a.a.s., 7F46
- elimination of interferences in, 10F33
- in cereals and flour, by a.a.s., 5G2
- in chicken, eggs and milk powder, by dry-ashing - a.a.s., 8F4
- in chicken embryos, by spectrophotometry, 4D45
- in coal, by differential pulse polarography, 8B132
- in Coca-Cola, by differential pulse anodic-stripping voltammetry, automated device for, 3F25
- in copper alloys, by γ -activation spectrometry, 4B47
- in copper-based alloys, by a.a.s., 4B48
- in cosmetics and dyes, by a.c. polarography, 2C58
- in crude oil, by a.a.s., 8C52
- in Dutch cheese, by flameless a.a.s., 10F45
- in eggs, by a.a.s., 2F22

Lead, detmn. of,—continued

- in evaporated milk, by anodic-stripping voltammetry, 7F62
- in foods, by a.a.s., 7F5
 - by differential pulse anodic-stripping voltammetry, 10F1
- in gasoline, by a.a.s., 1C20, 10C57
 - by carbon furnace - Zeeman a.a.s., 5C70
 - by ICP a.e.s., 6J138
- in glass, by a.a.s. with direct furnace volatilization, 8B134
- in glasses and glazes, by fast-atom-bombardment m.s., 10B176
- in hair, skin and nails by electrothermal a.a.s., 7D31
- in hydrothermal inclusion fluid in mineralized quartz, by differential pulse anodic-stripping voltammetry, 11B77
- in industrial wastes, by polarography, 5B12
- in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
- in lake water, by anodic-stripping voltammetry, 8H48
- in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
- in lead - zinc ores, by XRF, 1B74
- in liver, by a.a.s. carbon-rod atomizer for, 2D25
- in magnesium salts and zinc, by differential pulse polarography, 1B33
- in manganese dioxide, by oscillography, 4B149
- in manganese ores, by oscillography, 5B212
- in marine phosphorites by γ -ray spectrometry, 4B87
- in milk powder and biological materials, ashing method for voltammetric, 7F61
- in milk-protein concentrates, reproducibility of, 5F30
- in mineral waters, by differential pulse anodic-stripping voltammetry, 2H34
- in molluscs, by graphite-tube a.a.s., 8D28
- in motor oil, by a.a.s., 4C58
- in natural waters, by a.a.s., 1H30
 - by anodic-stripping voltammetry, 4H54
 - by differential pulse anodic-stripping voltammetry, 4H55
- in nickel and nickel-based alloys, by differential pulse anodic-stripping voltammetry, 9B157
- in oyster tissue, by microcomputer-controlled graphite-furnace a.a.s., 5J92
- in paper and its products, by a.a.s., 10C74
- in particles, by laser micro-probe mass analysis, 11B38
- in plants, by a.a.s., ascorbic acid in, 3D21
 - by a.a.s. and emission spectrography, 5D24
 - by extraction - polarography, 4B22
- in plastic food containers, by indirect oxidation - fluorimetry, 12F11
- in potable water, by a.a.s., 5H56
 - sampling and pre-concentration in, 9H38
 - by stripping voltammetry, 5H49
- in potable waters, by a.a.s., sodium interference in, 6H59
- in river fish, by flameless a.a.s., 9F27
- in river water, by a.a.s. after extraction and by ICP a.e.s., 8H50
- in roadside dust, by a.a.s., 3H5
- in rocks and soils, by a.a.s., 1B151
- in sea- and waste water, by solvent extraction - XRF, 11B13
- in sea-water, by a.a.s., 3H32, 3H34
 - by extraction - a.a.s. and/or anodic-stripping voltammetry, 5H43
 - by graphite-furnace a.a.s., 7H39
 - by potentiometric stripping, 6H58
- review, 2H33
- in sediment, after digestion, by a.a.s., 5H50
 - by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
 - by cyclic stripping voltammetry, 2H38
- plants and fish, by g.c. - a.a.s., 10H52
- in serum, by PIXE, 12D45
- in silicate rocks, by a.a.s., 4B108
- in silver nitrate, by a.a.s. after sepn. from silver, 9B29
- in soft drinks, by potentiometric stripping analysis, 4F68
- in soil, by a.a.s. after extraction, 5G11
- in soil and sewage-sludge-treated soil, by a.a.s., 5G9
- in solid wastes, polarographic, 10H95
- in steel, by a.a.s., 5B232
- in steel and cast iron, by a.a.s., 8B121
- in steel and iron, by a.a.s., 1B130
- in table salt, 8F49
- in tears, by a.a.s., 2D15
- in tin, by differential scanning calorimetry, 1J122
- in titanium dioxide, by anodic-stripping voltammetry, 5B157
- in treated gasolines, titrimetric, 3C48
- in triuranium octaoxide, by a.a.s., 4B97
- in urban aerosols, by XRF, 6H13
- in urban dust, by a.a.s., optimized extraction procedure for, 4H15
- in urine, by flameless a.a.s., matrix modification in, 2D24
- in vapours, saturated-vapour total-absorption method for, 3J78
- in waste water, by stripping voltammetry, 5H89
 - by XRF, 7H73
- in water, by a.a.s. of hydrazone complexes, 8B71
 - by anodic-stripping voltammetry, optimization of, 3B43
 - stabilization of samples for, 1H25
- in water and plant material, by room-temperature phosphorescence, 8H58
- in water and waste water, decomposition of organic matter in, 12H50

Lead, detmn. of,—continued

- in whole blood, photo-induced haemolysis in, 7D32
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
- in zinc - lead ores, by XRF, 11B36
- in zinc sulphate electroplating soln., by h.p.l.c., 4B67
- ion-selective electrodes for, 12J153
- 2-methyl-4-(2-thiazolylazo)resorcinol as indicator in titrimetric, 10B21
- pulse voltammetric, superposition principle in, 12A17
- reagent systems for spectrophotometric, 11B10
- simultaneously with thallium and cadmium, by stripping chronopotentiometry, 1J119
- spectrophotometric, 9B95
 - review, 3B18
- twin-probe slit apparatus in X-ray, 1B6
- detmn. of bismuth, antimony and tin in, by a.a.s. after pptn. with iron^{III} hydroxide, 10B88
- detmn. of cadmium in, by extraction - differential pulse anodic-stripping voltammetry, 11B37
- detmn. of thallium in, by anodic-stripping voltammetry, 5B149
 - by flameless a.a.s., 5B67
 - by stripping voltammetry, 11B81
- detmn. of trace, by thermal-ionization m.s., direct electro-deposition in, 11J110
 - in water, by a.a.s., 6B25
 - by anodic-stripping voltammetry, 12H61
- Rhodamine B and iodide in spectrophotometric, 7B45
- extraction of, by *N*-butylaniline - chloroform, from acidic potassium iodide medium, 10B87
 - from alkaline soln., 7-(3,3,5,5-tetramethyl-1-vinylhexyl)quinolin-8-ol in, 10B15
 - from ceramic ovenware, by hot acetic acid, 4F1
 - from river water, by flotation, 4H52
 - from sediment and soil, effect of extractant pH on, 12H48
 - from water, by adsorption on iminodiacetic acid - cellulose, 2H31
 - tall oil and pyridine in, 12B25
 - with dithiocarbamates, 6B22
- loss of atomic vapour of, during graphite-furnace a.a.s., 9J88
- luminescence of complex compounds of, 7B16
- sepn. of, from aq. soln., ion-exchange sorbent for, 12B43
 - from copper and zinc, by cation exchange, 1B75
- speciation of, in water, by Donnan dialysis, 12H52
- Lead-210**, detmn. of, in environmental materials, 5H2
 - in snow, by α -particle spectrometry, 4H62
- Lead-212**, detmn. of, in air, by α -particle counting, computer program for, 9H13
- Lead-214**, detmn. of, in air, by α -particle counting, computer program for, 9H13
- Lead, alkyl-**, detmn. of, in sediment, plants and fish, by g.c. - a.a.s., 10H52
 - in water and eggs, by g.l.c., 6H88
- , **tetra-alkyl-**, detmn. of, in air, by a.a.s. after electrostatic capture, 5H36
- , **tetraethyl-**, detmn. of, by g.l.c. with flame-photometric detection, 9C53
 - by h.p.l.c. - ICP, 9C54
 - in water, by extraction - a.a.s., 12H85
- , **tetramethyl-**, detmn. of, by h.p.l.c. - ICP, 9C54
 - in water, by extraction - a.a.s., 12H85
- , **trialkyl-**, detmn. of, in water, by graphite-furnace a.a.s., 2H65
- , **triethyl-**, detmn. of, in biological materials, by extraction on Extrelut and a.a.s., 8D98
- Lead carbonate**, analysis of, by X-ray photoelectron spectroscopy, 2B5
- Lead compounds**, as redox reagents, review, 7A8
 - detmn. of organic, by h.p.l.c. with chemical reaction detection, 12C25
- Lead nitrate**, analysis of, by X-ray photoelectron spectroscopy, 2B5
- Lead ores**, detmn. of bismuth in concentrates of, 7B80
 - by photometry, 3B64
 - detmn. of germanium in, by spectrophotometry, 6B97
 - detmn. of lead in, by XRF, 1B74
- Lead perchlorate**, detmn. of, ion-selective electrode for, 12B90
- Lead salts**, detmn. of thallium in, by anodic-stripping voltammetry, 5B149
- Lead silicochromate**, detmn. of basic, by X-ray diffraction, i.r. spectrophotometry and XRF, 6C61
- Lead sulphate**, analysis of, by X-ray photoelectron spectroscopy, 2B5
- Lead tin telluride**, analysis of, layer-by-layer, 10B177
- Leather**, detmn. of chromium in tanned, by chemiluminescence, 11C78
 - detmn. of formaldehyde in, spectrophotometric, 9C15
 - ident. of synthetic dyes from, by paper chromatography and t.l.c., 12C80
- Leather ash**, detmn. of chromium in, titrimetric, 8C96
- Leather dust**, detmn. of chromium in, by a.a.s., 5G17
- Leaves**, detection of organochlorine insecticides in, by t.l.c., 3,3',5,5'-tetramethylbenzidine as spray reagent for, 9G24
 - detmn. of cadmium, lead and thallium in, by isotope dilution - m.s., 12D27
 - detmn. of fluoride in, by direct potentiometry, 12D49
 - detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
 - detmn. of trace elements in citrus, by n.a.a., 9F4

Leaves—continued

- detmn. of trace elements in orchard, by XRF, 12H4
 detmn. of trace elements in tree, by ICP a.e.s., 12D14
 sepn. of organic acids in, by h.p.l.c., 2D137
- Leeks**, detmn. of allidochlor in, by g.l.c., 9G20
- Legumes**, characterization of cultivars of, by electrophoresis, review, 11G3
 detmn. of sugar-related compounds in, by t.l.c., 7G10
- Legumin**, sepn. of, in *Vicia faba* seeds, by electrophoresis, 3D205
- Lemon juice**, detmn. of food dyes in, Aliquat 336 in extraction - spectrophotometric, 10F20
 detmn. of iron and manganese in, by a.a.s., 12F30
- Lemon oil**, analysis of, by g.l.c., "heart-cutting" in, 11J61
 detmn. of, in complexes with cyclodextrin, by g.l.c., 8C71
- Lemons**, detmn. of bergapton in, by h.p.l.c., 8F41
 detmn. of biphenyl in, by t.l.c., 7G31
- Lenacil**, detmn. of, in air, by t.l.c., 11H29
- Lettuce**, detmn. of bromide as pesticide residue in, by ion-selective electrode, 11G39
 detmn. of organophosphorus insecticides in, automated, 5F39
 detmn. of vitamins in, 12F26
- Leucine**, detmn. of, trinitrobenzenesulphonic acid in spectrophotometric, 2D178
- Leucocytes**, assay of *N*-acetylglucosamine-6-sulphate sulphatase in, by electrophoresis, 11D257
 assay of biotinidase in, radiochemical, 8D245
 assay of myeloperoxidase in human polymorphonuclear, by spectrophotometry, 4D336
 assay of neuraminidase in, fluorimetric, 9D273
 detection of, in urine, test strips for, 4D19
 detmn. of, in urine, with test strips, review, 1D2
 detmn. of histamine in, by automated continuous-flow fluorimetry, 3D136
 detmn. of potassium in, by flame photometry, 5D16
 detmn. of pyridoxal and pyridoxal 5'-phosphate in, by fluorimetry, 9D244
 polymorphonuclear neutrophils, assay of peroxidase in, cytochemical, 4D297
- Leukotriene B₄**, detmn. of, by g.c. - m.s. as pentafluorobenzyl ester TMS ether derivative, 8D120
 by r.i.a., antigens for production of antibodies for, 7D127
 in alveolar macrophages, by g.l.c., 12D125
- Leukotrienes**, detmn. of, in biological fluids, 9A1B
 in biological materials, by h.p.l.c., 8D123
 improvement of peak shape and resolution in, 4D163
 review, 11D134
 sepn. of, in tissue fluid, by h.p.l.c., 3D109
- Levamisole**, detmn. of enantiomers of, by n.m.r. spectrometry, 6E54
- Levamisole hydrochloride**, identn. of, X-ray powder diffraction data for, 8E84
- Levonorgestrel**, detmn. of esters of, 7E15
- Levorphanol tartrate**, sepn. of glucuronide of, from urine, by h.p.l.c., 8D44
- Lidoflazine**, detmn. of, by potentiometry, electrode for, 9J138
- Light sources**, electrodeless lamp, for molecular-absorption spectroscopy, 9J83
- Light stabilizers**, detmn. of, in polyalkenes, by h.p.l.c., 2C68
- Lignin**, detmn. of, in sunflower seed, acorn, peanut, pumpkin seed, hazel-nut and chestnut, 4F50
 in tobacco, 1D79
 detmn. of phenolic and total hydroxy-groups in, by acetylation - saponification - g.c., 7C86
 u.v. and i.r. spectroscopy of, hexafluoropropanol as solvent for, 11C64
- Lignin acids**, detmn. of carboxylic and phenolic, by non-aqueous potentiometric titration, 7C87
- Lignins**, sepn. of, by high-performance size-exclusion chromatography, 3C64
- Ligninsulphonic acids**, detmn. of, in water, standard compounds for, 11H74
- Lignite**, detmn. of magnesium, calcium, aluminium, silicon and iron in, by X-ray technique, 5B274
- Lignocaine**, detection of, in illicit narcotics, by g.l.c., 11E4
 detmn. of, and active metabolites, in serum, by h.p.l.c., 11D84
 and its metabolites, in plasma, by g.l.c., 12D87
 in blood, by g.l.c., 2D85
 in body tissue and fluids, by g.c. - m.s., 4D112
 in cocaine, by h.p.l.c., 8E12
 in pharmaceutical preparations, spectrophotometric, 2E4
 in plasma, by h.p.l.c., 12D86
 in serum, by EMIT, stability of calibration graph in, 4D71
 by h.p.l.c., 4D114
 in serum and blood, by h.p.l.c., 2D86
- Lima beans**, detmn. of glycosides in, by densitometry, 1F6
- Lime**, analysis of quick- and hydrated, 9B38
 detmn. of calcium, iron and magnesium in, by a.a.s., 3B110
 detmn. of unreacted, in mixtures with soil, titrimetric, 10G13
 sampling of quick- and hydrated, 9B37
- Limestone**, detmn. of cadmium in, by ICP a.e.s., 7B155
 detmn. of iron in, mercaptoacetic acid in spectrophotometric, 7B116
- Limettin**, detmn. of, in perfumes and sun-tan cosmetics, by h.p.l.c., 7C81
- Limone**, detmn. of, in packaging materials, by automated thermal-desorption pyrolysis - g.c., 9J54
- Limonic acid**, detmn. of, in citrus juices, by enzyme immunoassay, 11F26
- Lincomycin A**, detmn. of, in fermentation liquor, by h.p.l.c., 2E20
- Lincomycin B**, detmn. of, in fermentation liquor, by h.p.l.c., 2E20
- Linene**, detection of trace iron in, colorimetric, 11C71
- Linoleate**, sepn. of, in safflower oil, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43
- Linoleic acid**, detmn. of, in antiseborrhoeic shampoo, 4E61
 in opium poppy seeds, chromatographic, 10D129
 identn. of α -diols derived from, in biological materials, by g.c. - m.s., 2D138
 sepn. of hydroperoxy-isomers of, by h.p.l.c., 3D100
 —, phenyl-, sepn. of monohydroperoxides formed by autoxidation of, by h.p.l.c., 5D131
- Linoleic acid hydroperoxide**, detmn. of, by differential pulse polarography, 6C11
- Linolenate**, sepn. of, in safflower oil, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43
- Linolenic acid**, detmn. of, in antiseborrhoeic shampoo, 4E61
 in evening primrose oil, by g.l.c., 3F32
 identn. of α -diols derived from, in biological materials, by g.c. - m.s., 2D138
- Linolenic acid hydroperoxide**, detmn. of, by differential pulse polarography, 6C11
- Linseed**, detmn. of glycosides in, by densitometry, 1F6
- Linseed oil**, detmn. of polar compounds in, IUPAC method for, 10F73
- Linseed-oil putty**, analysis of, standard methods for, 5C114
- Linuron**, detmn. of, in onions, by t.l.c., 2G19
- Lipid hydroperoxides**, detection of, by fluorimetry, 5D133
- Lipids**, analysis of, by g.l.c., 6D172
 by Raman spectrometry, 6D241
 by t.l.c. - f.i.d., 9D129
 analysis of complex polar, by t.l.c., review, 9D132
 analysis of specifically deuterated, review, 11D142
 detection of, by t.l.c. with f.i.d., 3D112
 detmn. of, by h.p.l.c., refractometric detector for, 6J39
 by t.l.c., preparation of impregnated thin films for, 6J56
 by t.l.c. - densitometry, computer program for data processing in, 12D130
 in blood, by high-resolution n.m.r., 10F68
 in brain, by t.l.c., 5D130
 in dairy products, 7F50
 in erythrocytes, liver and kidney, by t.l.c. - densitometry, 4D170
 in human milk, review, 12D132
 in inclusion complexes, 11F13
 in plasma, by h.p.l.c. - polarimetry, 12J44
 by t.l.c. - f.i.d. and g.l.c., 2D144
 in serum, by i.r. spectrophotometry with least-squares analysis, 4D167
 interference of azide in spectrophotometric, 3D114
 in tissues, by t.l.c., 12D129
 on copper sulphate-impregnated Chromarods, 12D128
 review, 11D140
 detmn. of ether-linked, as alkyl- and alk-1-enyl-glycerol benzoates, by h.p.l.c., 4D168
 detmn. of fatty acids in, by h.p.l.c., 1F21
 detmn. of ornithine-containing, in bacteria, by m.s., 2D146
 detmn. of peroxidation of erythrocyte, errors in spectrophotometric, 10D135
 detmn. of peroxidation of, in processed foods, by g.l.c. of TMS derivatives, 10F52
 detmn. of peroxidation products of, sucrose interference in thiobarbituric acid method for, 10D134
 detmn. of polar, in biological materials, by g.c. - m.s., review, 11D137
 detmn. of products of alcoholysis of, in plasma, by g.l.c., 12D131
 detmn. of ratio of proteins to, by i.r. spectroscopy, 9D131
 measurement of degree of oxidation of, in meat, by thiobarbituric acid methods, 7F39
 sepn. of, by column chromatography, deactivation of Florisil adsorbent for, 4D169
 by solvent extraction - chromatography, 3D113
 by three-directional t.l.c., 7D131
 in tissues, by ion exchange and t.l.c., 2D143
 sepn. of non-polar glycerolysis products, by low-pressure column chromatography, 10C17
 t.l.c. of, review, 11D141
- Lipoperoxides**, detmn. of, in liver or plasma, by spectrophotometry, 5D134
- Lipopolysaccharides**, detection of, by polyacrylamide gel electrophoresis with silver staining, 3D225
 in polyacrylamide gels, by transfer to nitrocellulose and immunoradiography, 11D117
- Lipoprotein a**, detmn. of, in serum, stability of standard preparation for, 4D265
 zone immunoelectrophoretic, 6D266
- Lipoprotein lipase**, assay of, in plasma, 12D240
 detmn. of, in monkey post-heparin plasma, 9D264
- Lipoproteins**, detmn. of, by measurement of cholesterol in, enzymic, 1D178

Lipoproteins, detmn. of,—continued

- in plasma, by h.p.l.c., 2D208
in serum, review, 12D196
detmn. of apolipoprotein B in, in plasma, 5D212
detmn. of apolipoproteins A-I, B and E in, by laser nephelometry, 9D219
detmn. of cholesterol and apolipoprotein B in low-density, after pptn. of very-low-density lipoprotein, 9D218
detmn. of cholesterol in high-density, 1D107
by pptn., kit for, 1D109
by tungstophosphoric acid - magnesium chloride pptn., 7D136
errors in, 10D141
detmn. of low-density, in plasma, by r.i.a. with monoclonal antibodies, 6D264
detmn. of phosphatidylcholine in high-density enzymic, 5D138
extraction of, from plasma, centrifuge tubes for, 11D212
fractionation of, in plasma, by ultracentrifugation with Beckman Airfuge, 4D263
fractionation of serum, 5D211
pptn. of low-density, from serum or plasma, 2D210
sepn. of, in plasma, by discontinuous density-gradient ultra-centrifugation, 2D209
sepn. of apolipoproteins in high-density, by h.p.l.c., 7D202
sepn. of high-density, by ultra-centrifuge, 10D215
sepn. of very-low-density, by micro-centrifugation, 9D217
 β -Lipotrophin, sepn. of, by t.l.c., 6D229
Lipoxygenase, detmn. of, in biological materials, oxygen electrode in, 4D305
Lipsticks, identn. of dyes in, by t.l.c., 7C82
identn. of smudges of, trans-esterification and g.c. - m.s. in forensic, 9C71
Liqueurs, detmn. of alcohol content of, by densitometry, 4F74
Liquid crystals, analysis of, by derivatization - g.c., review, 9J55
detmn. of biphenyl derivatives in, by i.r. spectrophotometry, 4C102
Liquids, sepn. of low-boiling, by chromatography on modified zeolites, 2J9
Liquorice, analysis of glycosides in, by h.p.l.c. with multi-channel photometric detection, 4E17
Lithium, detmn. of, by activation with heavy ions, review, 12B10
by graphite-furnace a.e.s., 9B15
by ICP a.e.s., interference by other alkali metals in, 6B35
by ion chromatography, 4B32
by α -particle-induced γ -ray emission, 5B10
by scattering of combination X-ray lines, 8B7
in aluminium alloys, by a.e.s., 2B32
in blood serum, by spectrophotometry, 2D12
in calcium oxide, spectrographic, 11B32
in coal ash and geological materials, by spark optical-emission spectroscopy, 5B18
in film emulsions, by a.f.s. in oxygen atmosphere, 6B38
in geological materials, by α -particle bombardment - prompt γ -ray spectrometry, 9B175
in greases, by a.a.s., 4C59
in oxide film on aluminium, by ion-scattering spectrometry, 12B58
in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
in serum, by ICP a.e.s., 1D17
in synthetic sea-water, by ICP a.e.s., 7B17
in tears, by a.a.s., 2D15
in triuranium octaoxide, by a.a.s., 4B97
in waste water, by a.a.s., 10H89
ion-selective electrode for, 8J123
detmn. of isotopes of, by spectrometry, 6B13
detmn. of metallic, in lithium hydride, by coulometric titration, 1B15
extraction of, in presence of non-ionic surfactant, 7B23
ion-exchange behaviour of, with crown ether - tungstophosphoric acid ppt., 11B20
sepn. of, from sodium and potassium, by cation exchange in electric field, 8B22
solvent extraction of, with derivatives of dibenzo-18-crown-6, 7B24
—, **butyl**-, detmn. of, by titrimetry, 4C34
Lithium alloys, detmn. of hydrogen in aluminium-based, manometric, 10B56
Lithium carbonate, detmn. of trace metals in, by resin concentration - ICP spectrometry, 8B11
Lithium fluoride, detmn. of cobalt, copper, iron and nickel in, by extraction - spectrophotometry, 11B21
Lithium hydride, detmn. of metallic lithium in, by coulometric titration, 1B15
Lithium niobate, detection of iron in, by laser-induced fluorescence, 8B140
Lithocholic acid, detmn. of, in drugs, cholate membrane electrode for, 6E21
Liver, assay of *N*-acetyltransferase in, substrate for colorimetric, 11D242
assay of activity towards bile acids of UDPglucuronosyltransferase in microsomes of, by radiometry, 4D309
assay of alcohol dehydrogenase of rat, by enzyme-linked immunoadsorbent method, 4D302
assay of bile salt sulphotransferase and steroid sulphotransferase in cytosol of, by radiometry, 4D310

Liver—continued

- assay of collagenase in, by r.i.a., 11D251
assay of fatty acyl-coenzyme A oxidase in, by fluorimetry, 3D255
assay of fructose-bisphosphate aldolase in, radioisotopic, 6D302
assay of lactate dehydrogenase in, amperometric, 10D248
assay of oestrone 3-sulphate 16 α -hydroxylase of microsomes of, by h.p.l.c., 9D246
detection of metallothionein in, by h.p.l.c. - a.a.s., 3D191
detmn. of acyl-CoA in, by g.l.c., 6D318
by h.p.l.c., 4D281
detmn. of amitriptyline and imipramine in, by g.l.c., 4D106
detmn. of antibiotics in, *Bacillus stearothermophilus* in microbiological, 8F26
detmn. of arsenic in, by wet digestion - a.a.s., 5D31
detmn. of ATP in, by h.p.l.c., 10D237
detmn. of boron in, alkali-fusion method for spectrophotometric, 12D32
detmn. of cadmium, lead and thallium in, by isotope dilution - m.s., 12D27
manganese, zinc and copper in, by a.a.s., 9D19, 9D20
detmn. of cadmium and lead in, by a.a.s., carbon-rod atomizer for, 2D25
detmn. of calcium and magnesium in, by a.a.s., ashing method for, 9D23
detmn. of chloramphenicol in, by g.l.c., 4D82
detmn. of chloramphenicol residues in, by h.p.l.c. - m.s., 7D51
detmn. of chlorophenols in, by h.p.l.c., 7D106
detmn. of chlorpromazine and its metabolites in, by h.p.l.c., 3D54
detmn. of clioquinol in, by h.p.l.c., 2D100
detmn. of cobalt in, spectrophotometric, 9B152
detmn. of cocaine and benzoylecgonine in post-mortem, by computerized g.c. - m.s., 12D59
detmn. of coenzyme Q in, by h.p.l.c. with dual electrochemical detection, 8J36
detmn. of copper, zinc, cadmium and manganese in, by a.a.s., contamination in, 10D16
detmn. of dipyrone in, by spectrophotometry, 4D98
detmn. of doxepin and its metabolites in, by t.l.c. and g.l.c., 3D57
detmn. of ethanediol and its oxidation products in, by colorimetry and t.l.c., 9D104
detmn. of ethanediol in, by oxidation - reduction - g.c., 10D116
detmn. of ethoheptazine in, by g.l.c., 6D85
detmn. of FAD in, by luminescence, 3D233
detmn. of glutathione in, by h.p.l.c., 2D187
detmn. of glutathione S-transferases in monkey, colorimetric with *o*-dinitrobenzene as substrate, 11D244
detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
detmn. of halofuginone in, by h.p.l.c., 8F28
detmn. of lipid peroxidation products in, sucrose interference in thiobarbituric acid method, 10D134
detmn. of lipids in, by t.l.c. - densitometry, 4D170
detmn. of malonaldehyde in, as index of lipoperoxides, by spectrophotometry, 5D134
detmn. of malonyl-coenzyme A in rat, enzymic, 11D218
detmn. of mercury in, by a.a.s., 4D39
detmn. of metals in, by voltammetry or a.a.s., sample pre-treatment in, 4D26
detmn. of molybdenum in, by ion exchange - spectrophotometry, 4D57
detmn. of nicotine, caffeine and malathion in, 7D38
detmn. of ophthalmic and norophthalmic acids in mammalian, by h.p.l.c., 9D194
detmn. of proteins and cytochrome P-450 in, electrophoretic, 12D181
detmn. of selenium in, by isotope-dilution g.c. - m.s., 5D34
detmn. of sulfaquinolaxine in, by h.p.l.c., 2D103
detmn. of sulphonamides in, by Tishler method, interference by anthranilic acid in, 4D125
by t.l.c., 2D101, 2D102
detmn. of taurine in, fluorimetric, 8D169
detmn. of tauro- β -muricholic acid in, by r.i.a., 1D119
detmn. of 3,3',4,4'-tetrachlorobiphenyl in rat, by g.l.c., 5D109
detmn. of thallium in, by a.a.s., 8D25
detmn. of trace elements in, by a.a.s., 12D12
detmn. of trace elements in reference standard of bovine, by n.a.a., 9F4
detmn. of trace metals and organochlorine compounds in, 6D17
detmn. of triethyl phosphate and its metabolites in, by h.p.l.c., 8D92
detmn. of triethyl phosphate in, by t.l.c. - spectrophotometry, 11D111
detmn. of ubiquinone 10 in, by h.p.l.c., 12D245
detmn. of uric acid in chicken, by h.p.l.c., 10D242
detmn. of urochloric acid in, by g.l.c., 12D85
detmn. of vitamin B₆ compounds in, by h.p.l.c., 11D225
identn. of alcohol dehydrogenase and aldehyde dehydrogenase isoenzymes in, by electrophoresis, 1D200
identn. of folyl polyglutamates in, by gel electrophoresis, 7D233
identn. of sulphonamides in, by m.s., 1D64
sepn. of adenine and adenosyl-sulphur compounds in, by h.p.l.c., 2D223
sepn. of glucose-6-phosphate dehydrogenase of mouse, electrophoretic, 9J46
Loranthus parasiticus, detmn. of tutin in, by t.l.c. - spectrophotometry, 4E14

- Loranthus yadoriki**, detmn. of tutin in, by t.l.c. - spectrophotometry, 4E14
- Lorazepam**, detmn. of, in brain, by g.l.c., 6D94
in commercial formulations, by spectrophotometry, 1E21
- Lormetazepam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
- Loxapine**, detmn. of, by differential pulse voltammetry with graphite-coated aluminium electrode, 4E42
- Loxitidine**, detmn. of, in plasma and urine, by r.i.a., 5D89
- Lubricants**, analysis of iron carbide, by electron-probe micro-analysis, 7B125
detmn. of hydrocarbon oil components of soap-type, by t.l.c., 11C40
diphenyl sulphide derivatives, analysis of synthetic, by h.p.l.c., during oxidation, 7C105
Raman spectrometry of, diamond anvil cell for, 10J109
- Lubricating greases**, detmn. of metal salts of fatty acids in, by i.r. spectrophotometry, 10C59
- Lubricating oils**, analysis of, by gel-permeation chromatography with refractometric detection, 9J33
by ICP a.e.s. - a.a.s., review, 2C48
by variable-separation synchronous excitation fluorescence, 3C49
aviation turbine, detmn. of antioxidants in, by differential scanning calorimetry, 5C74
detmn. of iron and copper in, by a.a.s., 9C56
detmn. of iron in, by emission spectrometry, 4C57
detmn. of iron in used, by a.a.s., 6C42
detmn. of metals in, by a.a.s., 4C58
by XRF, 1C21
detmn. of molybdenum in, by titration with hexafluorosilicic acid - dimethylformamide adduct, 9C55
detmn. of PCB in, by g.c., statistical model for, 1A10
detmn. of residual solvents in, by g.l.c., 5C73
detmn. of zinc bis-(*OO'*-dialkyl phosphorodithioates) in, by g.c., 2C49
detmn. of zinc in, by e.s.r. spectrometry, 6B59
by ICP a.e.s., 6J138
identn. of, by g.l.c., 2C76
by variable-separation synchronous-excitation fluorescence, 8C57
measurement of stability of, by detmn. of oxygen absorption, 4C56
standardization of gear, review of, 5C72
- Lucerne**, detmn. of canavanine in, fluorimetric, 10G14
detmn. of coumestrol in dietary tablets of, by h.p.l.c., 9E57
- Luminescence**, surface-sensitized, of PAH, 5J107
- Luminescence analysis**, applications of total, 5J108
clinical applications of, review, 3D3
cryogenic cell for, 6J142
cyclodextrin-enhanced, 11J102
high-flux and high-resolution vacuum-u.v. beam line for, 1J74
instrumentation for, review, 4J129
low-temperature, conduction cooling and pulsed source in, 6J141
- Luminescence immunoassay**, photographic monitoring in, 12J10
- Lunar materials**, analysis of, review, 11B153
- Lung**, detmn. of acyl-CoA in, by g.l.c., 6D318
detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
detmn. of lipid peroxidation products in, sucrose interference in thiobarbituric acid method, 10D134
detmn. of thallium in, by a.a.s., 8D25
detmn. of tubulin in, by r.i.a., 10D206
sepn. of cAMP and its derivatives in, by h.p.l.c., 6D273
sepn. of heparan sulphates from, by chromatography on poly-L-lysine-Sepharose, 11D123
- Lupin oil**, detmn. of tocopherols in unsaponifiable fraction of, by g.c. and h.p.l.c., 9F56
- Lutein**, sepn. of isomers of, by h.p.l.c. of dicarbamate derivatives, 6D267
- Luteinizing hormone**, detmn. of, in urine, by sandwich enzyme immunoassay, 12D178
detmn. of bovine, by r.i.a., antiserum for, 7D200
- Luteoskyrin**, detmn. of, in mouldy food, by t.l.c., 5F6
- Lutetium**, detmn. of, by spectrography, computer program for data processing in, 2A14
chlorophosphonazo-mN in spectrophotometric, 5B87
in mixtures, by n.m.r., 3B55
in rare-earth-metal mixtures, spectrographic, computerized densitometry in, 9J100
in uraniferous rock, by n.a.a., 10B61
extraction of, in presence of perchlorate, diantipyrinylmethane in, 5B97
sepn. of, from other heavy lanthanoids, by ion-exchange chromatography, 10B66
- Lutidines**, sepn. of, in coal tar, by g.l.c., 9C61
- Lycorine**, detmn. of, in biological materials, by h.p.l.c., 8D156
- Lymphocytes**, detmn. of dehydroascorbic acid in, by h.p.l.c., 6D289
sepn. of, from other blood cells, by h.p.l.c., 4D11
- Lysergamide**, detmn. of, by h.p.l.c., 2E5
- Lysergic acid derivatives**, detmn. of, in fermentation broth, by r.i.a., 7E6
- Lysergide**, detmn. of, in biological fluids, by fluoro-immunoassay, 6D98
- Lysine**, detection of, in barley kernels, fluorimetric, 1G3
detmn. of, by enzymic fluorimetry, 1D140
by succinylation, 11F5
in fermentation liquids, enzyme electrode for, 11J134
with enzyme electrode, 11J08
detmn. of modified, in proteins, review, 9D187
- Lysine-continued**
—, trimethyl-, detmn. of, in plasma and tissues, by h.p.l.c., 11D174
- Lysine derivatives, alkyl-**, detection of, after t.l.c., with Dragendorff reagent, 5C58
- Lysophosphatidic acids**, identn. of, in plasma, by g.c. - m.s., 11D143
- Lysophosphatidylcholine**, extraction of, from heart, storage of extracts after, 10D138
- Lysophospholipase**, detection of, in insect venom, by cation-exchange h.p.l.c., 4D331
- Lysozyme**, assay of, in antiphlogistics, by h.p.l.c., 8E20
in urine, by turbidimetry, 2D231
review, 11D253
cation-exchange h.p.l.c. of, effect of urea on, 12D236

M

- Maackia**, detmn. of, in *Cicer arietinum*, by h.p.l.c., 5G6
- Macrocin methyltransferase**, assay of, by h.p.l.c. detmn. of tylosin, 12E66
- α -2-Macroglobulin**, detmn. of, in serum and plasma, substrate for enzymic, 1D172
- Macrogols**, detmn. of, in biological materials, by g.l.c., 6D131
sepn. of low-mol.-wt., by gel-permeation chromatography and t.l.c., 6D132
- Macrogols ointment**, identn. of ingredients of, by h.p.l.c., 2E53
- Macromolecules**, liquid chromatography of, book, 7J73B
- Magnesite**, analysis of, Japanese standard methods for, 12B84
- Magnesite-chrome**, detmn. of metals in, 5B283
- Magnesium**, analysis of, by high-energy plasma spectrometry, 4B63
concn. of traces of, by complexation with tiron and anion exchange, 5B23
detmn. of, by a.a.s., computerized data-processing in, 6B54
by complexometry with 1-(2-pyridylazo)-2-naphthol as indicator, effect of non-ionic surfactants on, 5B16
by ion chromatography with EDTA as eluent, 12B24
by paper chromatography - a.a.s., 10B3
by α -particle-induced γ -ray emission, 5B10
by spectrophotometry after extraction, 5B57
by spectrophotometry after extraction with 7-[2-hydroxyphenyl]-2-methoxycarbonylanilino[methyl]quinolin-8-ol, 5B58
by titration with EDTA, with ferrocyanide as masking agent, 5B60
complexometric, 10C27
1,8-dihydroxyanthraquinone in fluorimetric, 1B32
5,7-di-iodoquinolin-8-ol and Rhodamine S in spectrophotometric, 4B62
fluorimetric, surfactants in, 8B14
in alkali-metal chlorides, by a.a.s., 3B23
in aluminium, by ICP a.e.s., 6B69
in animal feed and tissues, by a.a.s., ashing method for, 9D23
in aq. and acid soln., h.f. generator with argon plasma for, 4J124
in biological materials, magnesium-26 in m.s., 12D20
in blood and urine, by colorimetry, centrifugal analyser in, 7D23
in blood platelets, by a.a.s., 12D25
in brown coal, by X-ray technique, 5B274
in calcium oxide, spectrographic, 11B32
in carbide inclusions in steel, by a.a.s., 3B93
in cellulose, by flame a.a.s., 5C94
in cement and silicates, by a.a.s., 1J65
in Chinese cabbage, by a.a.s., digestion methods for, 10F51
in erythrocyte ghosts, by spectrophotometry in presence of arsenazo III, 4D34
in europium-doped barium magnesium aluminate, 11B170
in feeds, stopped-flow colorimetric, 8G7
in feldspar and lime, by a.a.s., 3B110
in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
in glass, by a.a.s., 7B149
in milk, clarification procedure for, 4F40
in minerals, bis-(2-ethylhexyl) phosphate in, 6B55
in natural waters, by ion-selective electrode, selectivity of, 4H59
in paper ash, complexometric and spectrophotometric, 12C62
in plants, by hydrochloric acid extraction, 11G1
in platinum, by spectrography, after electrolytic sepn., 2B83
in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
in presence of alcohols, by a.a.s., 8B36
in presence of calcium and iron, by spectrophotometry, 1B31
in quicklime, hydrated lime and calcium carbonate, 9B38
in rocks, by n.a.a., 3B16
in sea-water containing calcium, by thermometry, 3H40
in serum, by a.a.s., sampling tubes for, 2D19
by flow injection - ICP a.e.s., 10D20
centrifugal analyser in, 9D21
interference by bilirubin in automated, 1D16
in serum and plasma, by flow-injection analysis and a.a.s., 8D21
in serum and urine, by ICP a.e.s., 1D17
in sheet glass, 7B151
in silicates, by a.a.s., solubilization in, 1B155
in silver nitrate, by a.a.s. after sepn. from silver, 9B29
in sodium chloride, by titrimetry, 4B34

Magnesium, detmn. of.—*continued*

- in soil, 9G7, 10G10
 - by spectrophotometry, 3G6
 - by spectrophotometry with chlorophosphonazo I, 4G13
- extractants for, 11G11
- in steel and cast iron, by a.a.s., 3B94
- in tears, by a.a.s., 2D15
- in triuranium octaoxide, by a.a.s., 4B97
- in urine, pre-treatment procedure for, 10D14
- in water, by a.a.s., 1H26
- in wine, by flame photometry and a.a.s., 12F36
- ion-selective electrode for, 10J137
- detmn. of iron in, spectrophotometric, 3B92
- extraction of, 2B23
- sepn. of, from aluminium, in antacid drugs, 1E37
- from bivalent metal ions, by ion exchange, 7J48
- from manganese, by ion exchange on stannic arsenoantimonate, 9B139
- from other metals, polystyrene-based chelating resin for, 3B19
- Magnesium alloys**, analysis of, by high-energy plasma spectrometry, 4B63
- detmn. of rare-earth metals in, by spectrophotometry, 3B50
- detmn. of zirconium in, by spectrophotometry, 8B74
- Magnesium fluoride**, detmn. of alkaline-earth metals in, 9B35
- Magnesium nitrate**, detmn. of cadmium in, masking agent for spectrophotometric, 2B28
- detmn. of trace metals in, by differential pulse polarography, 1B33
- Magnesium oxide**, detmn. of, in red mud, review, 1B47
- in slags and dolomite, 10B144
- detmn. of aerosols of, in air, by photometry, 5H16
- detmn. of magnesium hydroxide in, by i.r. spectrophotometry, 2E47
- detmn. of trace metals in, by differential pulse polarography, 1B33
- Magnesium sulphate**, detmn. of trace metals in, by differential pulse polarography, 1B33
- Magnesium zinc germanate silicate**, detmn. of germanium in manganese-doped, 11B169
- Magnetic materials**, analysis of films of, by XRF, 9J75
- Magnetite**, detmn. of vanadium in, by a.a.s., 2B63
- Maize**, amino-acid sequencing of prolamins and glutelins of, by ion-exchange chromatography, 9G6
- analysis of epicuticular wax in, by g.l.c., 12D110
- detmn. of aflatoxin B₁ in, by h.p.l.c., 7G8
- detmn. of aflatoxins in, by column chromatography - t.l.c., 2G2
- by h.p.l.c., 7G2
- test programme for, 4G7
- detmn. of bendiocarb in, by g.l.c., 9G25
- detmn. of cadmium in, by a.a.s. with d.c. plasma as atomizer, 4J109
- detmn. of caphechlor in, by steam-distillation - g.c., 7G35
- detmn. of citrinin in, by t.l.c. on glycolic acid-impregnated plates, 10G6
- fluorimetric, 10F9
- detmn. of cyclopiazonic acid in, colorimetric, 10F10
- detmn. of deoxynivalenol in, by t.l.c., 10G3
- detmn. of *Fusarium* mycotoxins in, by g.c. - m.s. with selected-ion monitoring, 9G2
- detmn. of nitrogen in, by combustion and g.c., 11D26
- detmn. of pigments in, by t.l.c. - derivative spectrophotometry, 9D224
- detmn. of pyrethroid insecticides in, by g.l.c. - e.c.d., 7G37
- detmn. of sulphur dioxide in, by direct titrimetry, 1G1
- detmn. of total available glucose in industrial-fermentation feedstocks based on, enzymic - electrochemical, 9G4
- detmn. of zeaxanthone in, by h.p.l.c., 5G25
- sepn. of herbicides in, by h.p.l.c., 10J35
- Maize flour**, detmn. of metals in, by a.a.s., 8F20
- Maize juice**, detmn. of adulterants in, by h.p.l.c., review, 9F40
- Maize meal**, detmn. of aflatoxins in, evaluation of standard methods for, 10F7
- Maize oil**, analysis of triglycerides of, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
- detmn. of fatty acids in, by g.l.c., 3F33
- by n.m.r., 2C55
- detmn. of trace metals in, by a.a.s., sample preparation for, 2F42
- detmn. of triglycerides in, by h.p.l.c. - m.s., 4F75
- by reversed-phase h.p.l.c. - m.s., 9F54
- Maize syrup**, detmn. of, in maple syrup, by m.s., 10F23
- detmn. of adulterants in, by h.p.l.c., review, 9F40
- measurement of acidity in, by titrimetry, 7F31
- Malachite**, identn. of, in antiquities, by Raman laser micro-probe, 10C83
- Malathion**, detection of, by g.c., effect of column temp. on, 1G17
- in water, soil and sand, spot test for, 3H69
- detmn. of, by indirect titrimetry, 6G32
- by t.l.c., 2G17
- in apples and pears, automated enzymic, 2F35
- in biological materials and soln., 7D38
- in blood, by g.c., 10D115
- indirect, by chemical-ionization m.s., 7J101
- in fatty foods, by t.l.c., 6F16
- in vegetables, automated, 5F39
- Maleimide acid, N-ethyl-**, detmn. of, in N-ethylmaleimide, by g.l.c., 4C27
- Maleic acid**, detmn. of, in N-ethylmaleimide, by g.l.c., 4C27

Maleic acid—*continued*

- , **chloro-**, detmn. of, by isotachopheresis, 11C10
- Maleic anhydride**, detmn. of free, in C₃ resin - maleic anhydride adduct, by i.r. spectrophotometry, 7C98
- sepn. of, by g.l.c., 4C27
- Maleic hydrazide**, detmn. of, in potatoes, by g.c., 7F73
- in waste water, by h.p.l.c., 9H88
- detmn. of hydrazine in, by g.l.c., 4G34
- Maleimide, N-ethyl-**, analysis of technical, by g.l.c., 4C27
- Maleimides, N-alkyl-**, sepn. of, by g.l.c., 4C27
- Malic acid**, detmn. of, in orange, grapefruit and cherry juices, by h.p.l.c., 5F36
- in wine, by paper chromatography, 4F72
- identn. of, in apple juice, by liquid chromatography, 7F70
- sepn. of, from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- sepn. of enantiomers of, by g.c., preparation of derivatives for, 5C26
- Malonaldehyde**, detmn. of, and its precursor, in autoxidized vegetable oils, by h.p.l.c., 9F53
- in chicken fat, prevention of autoxidation in, 6F37
- in liver or plasma, by spectrophotometry, 5D134
- Malonic acid**, detmn. of, by titration with thallium^{III}, 9C18
- sepn. of, by paper chromatography, 11C11
- from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- , **methyl-**, detection of, in urine, colour reaction for, 4D161
- detmn. of, in urine, by g.c. - m.s., 6D159
- by g.l.c., 6D160
- Malonohydrazide**, detmn. of, spectrophotometric, 3C20
- Malononitrile, 2-chlorobenzylidene-**, identn. of, in forensic samples, by g.c. - m.s., 3C65
- Malt**, analysis of, by near-i.r. spectrometry, 6F73
- detmn. of nitrosamines in, by g.l.c., 4F70
- detmn. of N-nitrosodimethylamine in, by pre-concentration and g.l.c., 10F61
- detmn. of total nitrogen and ammonia in, without distillation, 12F32
- detmn. of water and protein in, by near-i.r. spectrometry, 7F84
- measurement of diastatic power in, 7F83
- sepn. of proanthocyanidins of, by liquid chromatography, 10F59
- Maltenes**, detmn. of total, in coal-derived liquids, by t.l.c. - f.i.d., 9C65
- Malthenes**, detmn. of, in bitumen, heavy oils and synthetic fuels, by t.l.c. on Chromarods, 1C22
- Maltose**, detmn. of, in bread and bakery products, by h.p.l.c., 6F30
- in breakfast cereals, by h.p.l.c., 6F29
- in food, by h.p.l.c. and g.l.c., 12F4
- in yogurt, by g.l.c. of TMS derivatives, 4F47
- sepn. of, by h.p.l.c., 2C13
- Malt wort**, analysis of, by near-i.r. spectrometry, 6F73
- detmn. of bitter acids in, by h.p.l.c., 8F55
- detmn. of 5-hydroxymethyl-2-furaldehyde in, 5F49
- detmn. of nitrate in, 6F74
- detmn. of phenolic carboxylic acids in, by extraction - h.p.l.c., 12F34
- detmn. of total nitrogen and ammonia in, without distillation, 12F32
- Malus domestica**, detmn. of sorbitol in fruit and plant material of, enzymic, 10G8
- Malvaceae**, detmn. of cyclopropanoid fatty acids in seed oils of, by g.l.c., 9D119
- Malvin**, detmn. of, in wine, by fluorimetry and by t.l.c. - spectrophotometry, 12F35
- Mammillaria spp.**, detmn. of phenethylamine derivatives in, h.p.l.c., 2E12
- Mancozeb**, detmn. of, degradation during methanol and water extraction in, 11G32
- in fruit and vegetables, by g.c. - a.a.s., 3G18
- detmn. of imidazolidine-2-thione in, by h.p.l.c., 5G39
- Mandelic acid**, detmn. of, by h.p.l.c., 1C3
- sepn. of chiral derivatives of, by h.p.l.c., 7C37
- sepn. of enantiomers of, by g.c., preparation of derivatives for, 5C26
- , **dihydroxy-**, detmn. of, in plasma, radio-enzymic, 9D158
- , **3,4-dihydroxy-**, detmn. of, by h.p.l.c., 1C3
- in plasma, deconjugation for, 10D155
- in urine, by g.l.c., 6D204
- in vas deferens, by h.p.l.c., 2D167
- , **3-hydroxy-**, detmn. of, by h.p.l.c., 1C3
- , **4-hydroxy-**, detmn. of, in urine, by spectrophotometry, 1D95
- , **4-hydroxy-3-methoxy-**, detmn. of, in plasma, by g.c. - m.s., 7D159
- in urine, 1D96
- by g.l.c., 3D106, 6D204
- by h.p.l.c., 2D136, 11D128
- by reversed-phase h.p.l.c. with electrochemical detection, 12D153
- by spectrophotometry, 1D95
- spectrophotometric, 3D104
- in vas deferens, by h.p.l.c., 2D167
- Maneb**, detmn. of, in fruit and vegetables, by g.c. - a.a.s., 3G18
- Manganese**, as oxidation reagent, 10A10
- detmn. of, 1,5-bis-(5-chloro-2-hydroxyphenyl)-3-cyanofornazan in kinetic - spectrophotometric, 6B142
- by a.a.s., graphite cells for, 10J90
- by a.a.s. with laser evaporation, matrix interference in, 11J88
- by a.f.s. with tungsten-spiral atomizer, 10J102
- by colorimetry, 1B115
- by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12

Manganese, detmn. of,—*continued*

- by graphite-furnace a.a.s., interference by chloride in, 10B17
- by ICP a.e.s., 9I102
- by indirect fluorimetry, 7B114
- by oxidation to permanganate and photometry, 6B144
- by paper chromatography - a.a.s., 10B3
- by polarography, 12B49
- by reduction - indirect potentiometry, 8B82
- by spectrophotometry with 2-aminobenzohydroxamic acid, 5B211
- continuous-flow system for spectrophotometric, 9B138
- gallion in kinetic, 4B148
- in air, by PIXE, 10H3
- in aluminium, by ICP a.e.s., 6B69
- in aluminomagnesium spinel, by XRF, 4B195
- in aq. and acid soln., h.f. generator with argon plasma for, 4J124
- in barium manganese aluminate, 9B60
- in biological materials, by a.a.s., contamination in, 10D16
- by XRF, effect of sample-dissolution procedures on, 1D33
- in biological tissues, by a.e.s., optimization of volatilization in, 5D37
- in blood, liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
- in calcium carbonate, by candoluminescence spectrophotometry, 6B56
- in calcium oxide, spectrographic, 11B32
- in canned fish, by a.a.s., 7F45
- in carbide inclusions in steel, by a.a.s., 3B93
- in Chinese cabbage, by a.a.s., digestion methods for, 10F51
- in eggs, by a.a.s., 2F22
- in environmental materials, methods and computer program for, 12H4
- in food, spectrophotometric, 8F5
- in fruit juices and drinks, by a.a.s., 12F30
- in green or red peppers, by a.a.s., 12F27
- in human, cow's and powdered milks, by a.a.s., 11F20
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in lake water and sea-water, by e.s.r., 8H71
- in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
- in mixtures, by spectrophotometry, 6B20
- in natural waters, by a.a.s., 12H72
- by differential pulse polarography, 6H74
- in ores, by titrimetry, 4B145
- standard material for, 7A7
- in phosphate rock reference material, 5A16
- in pig iron, by ICP a.e.s., 12B146
- in plants, by a.a.s. and emission spectrography, 5D24
- by hydrochloric acid extraction, 11G1
- by sub-stoichiometric isotope-dilution analysis, 10D46
- in platinum, by spectrography, after electrolytic sepn., 2B83
- in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
- in potable waters, by a.a.s., 10H64
- in potassium polyphosphate fertilizer, by a.c. polarography, 5G19
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in roadside dust, by a.a.s., 3H5
- in sea- and waste water, by solvent extraction - XRF, 11B13
- in sea-water and salt, by extraction - a.a.s., 8H72
- in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- in sheet glass, 7B151
- in silicates, by a.a.s., solubilization in, 1B155
- in silver nitrate, by a.a.s. after sepn. from silver, 9B29
- in slag, by coulometric titration, 12B133
- in soil, 5G10
- in soil and sewage-sludge-treated soil, by a.a.s., 5G9
- in steel, by emission spectrometry, Grimm lamp in, 10B149
- by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
- hollow-cathode discharge tube for, 5B235
- in steel and alloys, by spectrophotometry, 1B126
- in tap-water, in presence of zinc, by spectrophotometry, 6B143
- in tears, by a.a.s., 2D15
- in tellurium, by n.a.a., 1B103
- in tomatoes and tomato products, by a.a.s., 12F28
- in urine, by XRF after pre-concentration on chelating filter, 4D59
- in vegetables, X-ray spectroscopic, 6F59
- in waste water, by stripping voltammetry, 5H89
- by XRF, 7H73
- in waste water from metallurgy, 2,4-dithioburet in, 11H77
- in water, by n.a.a., 6H47
- by polarography, 6H77
- ion-selective electrode for, 12J162
- isophthalaldihydroxamic acid in extraction - spectrophotometric, 8B108
- methylthiourea in, 7B113
- potassium phthalomonohydroxamate in spectrophotometric, 3B87
- simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
- spectrophotometric, review, 3B18
- detmn. of copper, nickel, cobalt and zinc in nodules containing iron and, by a.f.s., 4B19

Manganese—continued

- detmn. of copper in, spectrophotometric, 3B33
- detmn. of trace, by catalysis - spectrophotometric, 11B122
- by catalytic oxidation of malachite green, 7B111
- in food and biological reference materials, by n.a.a., 9F4
- in liquid samples, pre-concentration method for, 9B8
- in liver, by a.a.s., 9D20
- in serum and liver, by a.a.s., 9D19
- succinimide dioxide in spectrophotometric, 7B112
- detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
- extraction of, from river water, by flotation, 4H52
- from sediment and soil, effect of extractant pH on, 12H48
- mathematical planning for optimization of, 4B147
- tall oil and pyridine in, 12B25
- 2-thenoyltrifluoroacetone and neutral uni- and bi-dentate ligands in synergic, 11B123
- pre-concentration of, by sorption on ferric oxide, 5B19
- sepn. of, from magnesium, barium and cadmium, by ion exchange on stannic arsenoantimonate, 9B139
- from other metals, by cation-exchange chromatography, 4B146
- polystyrene-based chelating resin for, 3B19
- in biological materials, chromatographic, 6D51
- Manganese(III)**, as coulometric titrant, 12A7
- Manganese ores**, detmn. of iron, lead and zinc in, by oscillopolarography, 5B212
- Manganese oxide**, detmn. of, in slag, by XRF, 4B158
- Manganese oxide (MnO)**, detmn. of, in iron-ore concentrates, by XRF, 11B130
- Manganese oxide (MnO₂)**, detmn. of lead in, by oscillopolarography, 4B149
- detmn. of molybdenum and antimony in battery-grade, by spectrophotometry, 8B109
- Manganese oxides**, detmn. of, in red mud, review, 1B47
- Mannitol**, detection of, in illicit narcotics, by g.l.c., 11E4
- detmn. of, by g.l.c., 3C11
- in celery, by h.p.l.c., 6F61
- sepn. of enantiomers of, by g.l.c., 5C19
- D-Mannitol, 2,5-anhydro-**, detmn. of, in biological fluids, enzymic, 4D145
- D-Mannosamine**, identn. of, in polysaccharides, by g.c., 7D110
- Mannose**, detmn. of, by oxidimetric titrimetry, 2C15
- in serum, by g.l.c., 6D145
- enzymic, 9D107
- in tobacco leaves, by g.l.c., 11D120
- , **2,5-anhydro-**, detmn. of, in biological fluids, enzymic, 4D145
- β-D-Mannosidase**, assay of, with 4-nitrophenyl substrate, 5D250
- D-Mannuronic acid**, detmn. of, by h.p.l.c., 5D118
- in alginates, by h.p.l.c., 3D95
- Maple syrup**, detmn. of cane sugar and corn syrup in, by m.s., 10F23
- identn. of monoterpenes and hydrocarbons in, by g.c. - m.s., 3C60
- Maprotiline**, detmn. of, in biological fluids, by h.p.l.c., 3D59
- in plasma, by h.p.l.c., 10D93
- in serum, by h.p.l.c., 4D108, 4D109
- in urine and plasma, by t.l.c. - fluorimetry, 9D69
- , **desmethyl-**, detmn. of, in biological fluids, by h.p.l.c., 3D59
- in serum, by h.p.l.c., 4D108
- Marble**, analysis of corrosion products of, 7H2
- Margarine**, detmn. of acrylonitrile in, by g.l.c., 4F37
- detmn. of antioxidants in, by g.l.c., 8F67
- detmn. of monoglycerides in, by g.l.c., 11F7
- detmn. of polyenoic fatty acids in, enzymic, 11F24
- detmn. of styrene in, by g.c., 4F46
- by g.l.c. and h.p.l.c., 11F11
- detmn. of t-butylquinol in, by h.p.l.c., 9F17
- Marine nodules**, detection of transition metals in, by X-ray absorption spectrometry - contact micro-radiography, 1J61
- Marine organisms**, detmn. of arsenic in, by a.a.s., digestion in, 4D52
- wet-digestion in, 1D28
- detmn. of trace metals in, inter-laboratory study of, 5H40
- Marmalade**, detmn. of artificial sweeteners in, by h.p.l.c., 7F23
- Mascara**, identn. of dyes in, by t.l.c., 7C82
- Mass spectrometry**, accelerator-centred, in detmn. of single atoms, 10B9
- advances in, 11A4B, 11A5B
- analysis of biological particles by direct, 11D9
- analysis of food by, review, 9F1
- analysis of organometallic anions by, review, 6C5
- atmospheric-pressure-ionization, review, 7J99
- automated control and timing unit for time-of-flight, 5J130
- automated control in, 1J86
- calculation of isotopic distributions for, 3J87
- californium-252 plasma desorption, for computerized analysis of high-mol.-wt. biomolecules, 5J129
- chemical-ionization, detmn. of metals and organic compounds by, surface interactions in, 7J101
- in characterization of oxygen-containing aromatic compounds, 12C51
- negative-ion, in structural analysis of natural products, review, 7D3
- chemical micro-sensors in, review, 9J123
- chemical reactivity of glycerol as matrix for, 1J89
- collision cells for improved sensitivity in, 2J95
- combined field-desorption - fast-atom-bombardment source for, 5J128
- computer-assisted detmn. of masses in high-resolution, with selected-ion monitoring, 12J122

Mass spectrometry—continued

correction for line-width in, for double-focusing instruments with photographic detection, 9J110
 coupled with electron spectroscopy, in surface analysis, 12J116
 coupled with g.c., 7J70
 automated retrieval system for spectra from, 12J117
 for organic analysis in iron and steel laboratory, 12J74
 in biochemical analysis, 1D113
 in environmental analysis, review, 8H2, 8H3
 spectral retrieval system for, 12J119
 in microbiological analysis, 11D259B
 interface for, 3J66
 interface for rapid change of columns in, 11J65
 microwave-induced plasma system for, 6J111
 of drugs, stable isotopes in, 1E20
 open split connection in, 12J75
 solute focusing by solvent effect in packed-bed inlets in, 11J54
 coupled with g.c. and i.r. spectrometry, applications of, review, 5J19
 coupled with g.c. or h.p.l.c., developments in, 1J87
 coupled with h.p.l.c., in analysis of natural products, 7J37
 review, 1J21, 11J28
 coupled with isotope cluster gas chromatography, 2J91
 coupled with liquid chromatography, direct interfacing for, 11J29
 interface for, 7J71
 interface systems for, 8J32
 moving-belt interface for, 10J39
 coupled with micro-bore h.p.l.c., 9J19
 review, 8J33
 coupled with pyrolysis, of biochemical mixtures, interpretation of spectra in, 9A36
 coupled with thermal analysis, computerized, 9J142
 deconvolution methods for improving resolution in, 6J158
 desorption, californium-252 fission-fragment-induced, 3J94
 doubly charged ions in, 3J92
 desorption chemical-ionization, formation of TMS molecular adduct ions from non-volatile organic compounds in, 3C1
 detmn. of stable isotopes in, least-squares calculation in, 8A23
 developments in, review, 8J110
 double ion monitoring, switching device for peak matching in, 11J111
 dual-pin cathode for glow-discharge ion source in, 7J112
 dynamic, in analysis of ultra-micro amounts of gases, 2J90
 electron-impact, differentiation of spectra of phenoxy fatty acids and phenols, 7C23
 fast-atom-bombardment, coupled with t.l.c., direct transfer system for, 8J51
 for characterization of oestrogen glucuronides and sulphates, 5D144
 in analysis of peptides, 4D232
 ion promotion in, by charge-transfer complexation, 6J160
 mass measurement in, 7J106
 polyoxyethylene glycol as solvent for, 12C15
 quantitative analysis by, 7J114
 relative abundances of ion currents in, 4J148
 review, 4J146
 fast-atom-bombardment and field desorption, comparison and bio-analytical applications of, 1J92
 field-desorption, detmn. of trace metals in animals and humans by, review, 11D10
 laser-assisted, in trace metal analysis, 1B3
 review, 7J107
 FT, applications of, review, 3J88
 caesium-ion desorption ionization with, 12J125
 zoom transform for accurate data processing in, 6A19
 glow-discharge, effect of target metals and plasma composition in, 7B7
 ICP, continuum-flow ion extraction in, 2J98
 development of, review, 12J76
 elementary and isotopic analysis by, 7J109
 ICP source in, 4J153
 identn. of polymers by direct pyrolysis -, library for, 9C83
 in analysis of environmental contaminants, review, 7J98
 in analysis of mixtures, B^2E = constant linked scans in, 7J105
 in biochemical, medical and environmental analysis, 10A1B
 in biochemical analysis, selecting-ion and metastable-ion monitoring in, review, 8D7
 in detection of metals, combined sputtering and secondary-ion, 6B21
 in environmental analysis, computerized library search system for, 8A22
 in gas analysis, accuracy of, 5A38
 in inorganic analysis, review, 6B15
 instruments for, digital electrostatic analyser scanner for updating of double-focusing, 11J112
 in surface analysis, 5J121, 12B5
 interpretation of data from, 10J112
 in thin-film and surface analysis, review, 9J66
 introduction system for, in biochemical analysis, direct liquid, 6J161
 ionization of non-volatile and unstable compounds in, review, 9J111
 ionization techniques for non-volatile molecules in, 8J109
 ion sources in isotopic-ratio instrument for, electrostatically collimated, 3J89
 isotopic, data analysis in, 11J113
 laser-desorption, coupled with liquid chromatography, 9D9

Mass spectrometry, laser-desorption,—continued

in analysis of non-volatile organic molecules, review, 10J114
 mechanisms and applications of, 4J152
 laser-induced, ion-formation processes in and direct analysis of solids by, 4J151
 laser micro-probe in, 5J135
 lasers in, review, 12J120
 laser-source, apparatus for and applications of, 11J114
 liquid-ionization, of non-volatile organic compounds, 9J114
 low-resolution, computerized calculation of reliability of, 8J111
 magnetic-sector, coupled with g.c., data-acquisition in, 8J67
 molecular-beam solid analysis in, review, 2J92
 - m.s., by time-resolved magnetic dispersion, 3J93
 high-resolution analysis of mixtures by, 4J147
 of organic ions generated by secondary-ion m.s., 9J115
 review, 9J116
 - m.s. triple-quadrupole, standard operating conditions for, inter-laboratory reproducibility study of, 7J110
 negative-ion fast-atom-bombardment, *in situ* reaction of boronic acids with triols in, 4J149
 of ions sampled by field evaporation from liquid matrix, sensitivity in, 3J91
 particle-induced desorption, analysis of large molecules by, 4J143
 quadrupole instrument for, 10J116
 photo-dissociation in ion source in, 7J111
 plasma ionization in, review, 6J129
 pyrolysis -, gold-plated filaments for Curie-point, 2J96
 quadrupole, coupled with thermogravimetry, 6J189
 dye laser interface with, 5J133
 instrument for, 5J132
 ion source for, 11J116
 scanning for doubly charged ions in, 7J108
 thermal-ionization source for, 2J97
 recent advances in, review, 5J127
 resolution of overlapping peaks in, computer programs for, 10A21
 resonance-ionization, c.w. lasers in, 7J113
 dye laser source for, 12J127
 in isotopic analysis of uranium - plutonium mixtures, 12B72
 pulsed thermal atom source for, 10J115
 reversible-sweep, instrument for, 4J150
 secondary-ion, analysis of organic compounds by, targets for, 2J94
 characterization of materials by, 1J91
 device for, fast-atom molecular, 6J159
 in analysis of minerals, 4B193
 in analysis of organic compounds, 11J115
 in characterization of materials, review, 7J103
 industrial applications of, review, 11J108
 in materials analysis, 7J102
 in surface analysis, Leybold-Heraeus LHS 10 system in, review, 8J107
 review, 11A26, 11J107
 in surface analysis of semiconductors, review, 12B184
 liquid-metal-ion primary source for, 3J90
 liquid-metal substratum for, 1J90
 molecular-ion complexes with sodium or silver in, 9D6
 of organic compounds, 4J145
 of solids, bombardment by high-energy heavy ions in, review, 12J124
 surface analysis of metals by, 7B10
 secondary neutral, principle and applications of, 7J115
 selected-ion monitoring, data processing in, computer programs for, 7A20
 spark-source, computerized calibration of ion-selective photographic emulsions for, 4J144
 effects of matrix and of total ion current in, 2J93
 effects of spark generator parameters on analysis of carbon electrodes by, 7J100
 high-voltage breakdown and material consumption in, 9J112
 improving accuracy of, 4B10
 liquid helium cryopumping in, for analysis of gallium arsenide semiconductors, 8B138
 review, 9J113
 spark-source or laser, suppression of matrix effects in, 8J112
 statistics for, 4A28
 surface-ionization, rhenium filaments for, apparatus for fabrication of, 7J97
 surface ionization of organic compounds in, 11C1
 symmetrical prismatic, analysis of organic compounds by, 9C1
 thermal-ionization, measurement of isotopic ratios of uranium and plutonium by, 12B73
 of metaborate, 6B64
 with electro-deposition and isotope dilution, 11J110
 three-dimensional mass chromatography, in environmental analysis, 12J118
 time-of-flight, linear mass reflectron for, 1J88
 with chemical ionization by potassium ions, thermionic emitter for, 12J123
 with field-ion microscope, as atom probe, 5J134
 with thermobalance, computer program for control of, 7A21
Matches, identn. of alkanes in, by g.l.c., 2C76
Materials analysis, 12B8

Materials analysis—continued

- by secondary-ion m.s., 7J102
 characterization of new crystalline, non-crystalline and complex materials, review, 9A8
- Mathematical models**, for analysis of copper mattes and slags by XRF, 2B19
- Mathematics**, in experiment design, reproducibility of reactions of iodide in relation to, 4A30
 Kalman filters, for estimating signals in the presence of noise, 11A19
- Mattes**, detmn. of platinum and palladium in, by ion exchange with ICP a.e.s. detection, 12B173
- Mayonnaise**, detmn. of preservatives in, by h.p.l.c., 9F16
 identn. of fatty acids in, by g.l.c., as indication of egg content, 7F13
- MCPA**, detmn. of, by g.c. and m.s., 5G31
 by h.p.l.c., 3G16
- Meat**, detection of trenbolone acetate in, review, 5D103
 detmn. of biogenic amines in, by ion exchange and capillary g.c., 9F21
 detmn. of calcium in, titrimetric with EDTA, 2F15
 detmn. of chloramphenicol in, by t.l.c. or h.p.l.c., 5F18
 detmn. of chlorobenzenes in, by g.l.c., 7F16
 detmn. of composition and protein efficiency ratio of, after defatting with organic solvent, 12F14
 detmn. of fat in, i.r. spectrophotometric, 2F16
 detmn. of 4-hydroxyproline in, toluene in, 6F34
 detmn. of melanoids in, 7F38
 detmn. of mercury, selenium and arsenic in, by a.f.s., 4G14
 detmn. of nitrate in, by reduction with cadmium, 7F41
 detmn. of nitrite and sulphite in, by ion chromatography with quenched-phosphorescence detection, 12B103
 detmn. of nitrite in, ion-selective electrode for, 12J160
 detmn. of nitrofurazone and furazolidone in, by h.p.l.c., 2F14
 detmn. of pesticide and PCB residues in fats of, clean-up method for, 5F33
 detmn. of proteins in, 4F27
 by direct distillation, 5F17
 by n.m.r., 5F5
 detmn. of sodium fluoroacetate in treated, by ion-selective electrode, 10G28
 detmn. of soya protein in, spectrophotometric, 10F29
 detmn. of steroids in, by r.i.a., review, 8F25
 detmn. of stilboestrol derivatives in, by g.c. - m.s., 1F9
 detmn. of testosterone in, by t.l.c., 8F29
 extraction of ammonia from, 1F8
 identn. of, by enzyme-linked immunosorbent assay, 4F28
 identn. of species of origin of, electrophoretic and immunological, review, 8F23
 measurement of degree of oxidation of lipids in, by thiobarbituric acid methods, 7F39
 pH measurement in, 5F19
- Meat extract**, detmn. of creatinine in, by h.p.l.c., 7F42
- Meat products**, detection of turkey or chicken meat in, immunochemical, 5F23
 detmn. of benzo[a]pyrene in smoked, by densitometry, 5F22
 detmn. of blood plasma in heat-treated, by ultra-thin-layer isoelectric focusing, 9F25
 detmn. of condensed phosphate in, spectrophotometric, 10F28
 detmn. of fat in, i.r. spectrophotometric, 2F16
 detmn. of nicotinic acid and nicotinamide in, by h.p.l.c., 3F15
 detmn. of nitrate in, enzymic - spectrophotometric, 8F24
 detmn. of nitrite and nitrate in, by h.p.l.c., 10F31
 detmn. of nitrite in, by fluorimetry, 1B80
 spectrophotometric, 10F32
 detmn. of proteins in, by direct distillation, 5F17
 detmn. of sodium and potassium in, by a.e.s., 10F30
 detmn. of soya-bean protein in, by ELISA, a.a.s. plate reader for, 4F31
 detmn. of soya in, by h.p.l.c., 7F43
 detmn. of soya protein in, spectrophotometric, 10F29
 detmn. of stilboestrol derivatives in, by g.c. - m.s., 1F9
- **sausages**, detmn. of ortho- and poly-phosphates in, spectrophotometric, 9F18
- Mebendazole**, detmn. of, by fluorimetry, 5E50
 by h.p.l.c., 12E55
 in tablets, by d.c. polarography, 3E42
 identn. of, X-ray powder diffraction data for, 8E84
- Mebezonium iodide**, detmn. of, in biological materials, by t.l.c. and spectrophotometry, 8D99
- Mebhydrolin napadisylate**, detmn. of, in plasma, spectrophotometric, 11D97
- Meclofenoxate**, detmn. of, in aq. soln., radiochemical, 3E29
- Mecoprop**, detmn. of, by h.p.l.c., 3G16
 in formulations, by h.p.l.c., 4G32
- Medazepam**, detmn. of, in pharmaceutical preparations, sodium tetra-phenylborate in potentiometric, 3E20
- Medical equipment**, detmn. of ethylene oxide in sterilized, by g.s.c., 5E1
 identn. of polymers in disposable plastic, by pyrolysis - g.c., 2E54
- Medicarpin**, detmn. of, in *Cicer arietinum*, by h.p.l.c., 5G6
- Medinoterb**, detmn. of, in water and sediment, by h.p.l.c., 11H67
- Mefenamic acid**, detmn. of, in pharmaceutical preparations, by ion chromatography, 4E40
- Mefloquine**, detmn. of, in plasma and blood, by h.p.l.c., 6D120
- Melanoids**, detmn. of, in meat, 7F38
- Membranes**, carbon, for sepn. of gases, 6J4
- Menadiol**, detmn. of, by h.p.l.c. or two-phase titrimetry, 7E16
- Menaphthone**, detmn. of, by h.p.l.c. or two-phase titrimetry, 7E16
 in pharmaceutical preparations, by spectrophotometry, 6E33
 in plasma, by h.p.l.c., 11D223
 detmn. of impurities in, by differential scanning calorimetry, 1E19
 identn. of impurities arising in synthesis of, by g.c. - m.s., 5E27
- Menaquinone**, detmn. of, in plasma, by h.p.l.c., 11D223
- Menaquinones**, detmn. of, by h.p.l.c., dual-electrode detector for, 9D242
- Menthan-3-ol**, sepn. of diastereoisomers and enantiomers of, by complexation g.c., 12J67
- Menthol**, detmn. of, by g.c., in mentholated sweets and panmasala, 4E63
 by t.l.c. - spectrophotometry, 8E21
 sepn. of enantiomers of, by g.l.c., 7C46
- Menthone**, sepn. of enantiomers of, by g.l.c., 7C46
- Mepenzolate**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Mepivacaine**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Meprobamate**, detmn. of, by hydrolysis, optimization of, 2E30
- Mepyramine**, identn. of, in post-mortem materials, 8D78
- Mepyramine maleate**, detmn. of, in animal feed, human urine and waste water, by h.p.l.c. or g.c., 9G12
- Mercapto-groups**, detmn. of, in blood platelets and plasma, spectrophotometric, 7D179
 polarographic, 10C9
- Mercaptopurine**, detmn. of, in plasma, by h.p.l.c., 5D42
- Mercury**, absorption of, from surroundings, by soln. of oxidizing agents, 5B68
 detmn. of, by a.a.s. after extraction with isopropyl (methyl)-thiocarbamate, 7B50
 by a.a.s. after extraction with macrocyclic formazans, 9B23
 by a.e.s., source in, 5J94
 by a.f.s., 6J145
 by anodic-stripping voltammetry, interference by metals in, 3B46
 by cold-vapour a.a.s., 5B69, 6B62
 by extraction - polarography as complex with 2-isopropylquinoline-8-thiol, 4B22
 by flame a.a.s. with twin-spray injection system, 11B95
 by flow-injection analysis - a.f.s., 6B63
 by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
 by g.c. as dialkylthiocarbamate chelates, 1B14
 by gravimetry, reagent for, 4B41
 by ICP a.e.s., 10B52
 by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
 by titrimetry, effect of thiocyanate on, 1B7
 by titrimetry with chloramine T-selective electrode, 4B51
 by XRF after extraction by mixed fatty acids, 7B49
 in air, by a.a.s., palladium chloride enhancement in, 5H1
 by flameless a.a.s., gold collector in, 1H8
 by gold amalgamation and flameless a.a.s., 1H7
 by spectrography, 4H19
 water and soil, by fluorimetry, 8H13
 in air-borne dust, by anodic-stripping voltammetry, 12H17
 in air of work-places, 7H13
 in air polluted by road traffic, 5H15
 in alloys containing tin or zinc, by titrimetry, thiocyanate in, 2B30
 in aq. soln., by a.a.s. flow-injection system, 4B69
 in biological and environmental samples, sample digestion in, 12D31
 in biological fluids, by a.a.s., review, 6J130
 chemicals and waste water, by graphite-furnace a.a.s., 8D23
 in biological materials, by a.a.s., 4D39, 12A8
 separative column atomizer for, 3J77
 by electrothermal a.a.s., 2D26
 by extraction - h.p.l.c., 12D29
 by vaporization - plasma emission spectrometry, 6D36
 open wet-ashing method in, 11D18
 reproducibility and quality control in, 1D25
 in biological materials and foods, by n.a.a., 4D25
 in biological samples, by gold amalgamation - gas-phase detection, 10D33
 in biota, by a.a.s., 12D108
 in bone, by ICP a.e.s., 2D10
 in drinking water and beverages, by a.a.s., 8F52
 in fish, by a.a.s., digestion for, 9F26
 by cold-vapour a.a.s., 5F26
 in fish products, ashing method for, 6F38
 by a.a.s., 6F39
 in fly ash, by cold-vapour a.a.s., interference in, 10B174
 in food, by a.a.s., 3F2
 by gold amalgamation method, 10F2
 in geological materials, by a.a.s., 6B61
 in natural waters, by ion exchange - XRF, 8H55
 in organomercury compounds, 11C2
 in paper and its products, by a.a.s., 10C74
 in particles, by laser micro-probe mass analysis, 11B38
 in pharmaceutical preparations, by a.a.s., 4E62

Mercury, detmn. of, —continued

- in phosphate rock reference material, 5A16
- in presence of iron, by spectrophotometry, 4B153
- in rain, 10H48
- in river fish, by flameless a.a.s., 9F27
- in river sediments, 5H48
- in river water, by h.p.l.c., 7H32
- in sea-water, by a.a.s., 10H50, 12H55
 - by n.a.a., 5H45
 - by trapping - cold-vapour a.a.s., 8H53
- in sediment, by a.a.s., 12H54
- in soil, rocks, plants and meat, by a.f.s., 4G14
- in surface water, 11H37
- in titanium alloys, by a.a.s., 2B54
- in urban dust, by a.a.s., optimized extraction procedure for, 4H15
- in urine, by a.a.s., automation of, 9D29
 - gold-film detector for, 4D40
 - with automatic analyser, gold-film detector for, 2D27
- in waste water, by cold-vapour a.a.s., 4H82
- in water, by low-pressure ring-discharge a.e.s., 3H38
 - by n.a.a., 5H47, 6H47
 - by spectrophotometry, thioketone in, 4B71
- in waters and ores, spectrophotometric, 5B70
- in zinc sulphate electroplating soln., by h.p.l.c., 4B67
- ion-selective electrodes for, 12J153
- 1,10-phenanthroline and cadion in spectrophotometric, 5B15
- sample decomposition and pre-concentration in, review, 7B1
- sodium 1,2-naphthoquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
- spectrophotometric, 7B48, 8B39, 9B51
 - review, 3B18
- thiadiazole-2-thiol derivatives in potentiometric titrimetric, 10B51
- 3-*o*-toluidinocinnamoyl-*o*-toluidide in gravimetric, 10B29
- N*-*p*-tolylloxamic acid in gravimetric, 10B50
- detmn. of inorganic and organic, in marine and land animals, 6D37
- detmn. of organic, in urine, blood and sea-water, by sodium tetrahydroborate reduction, 9D25
- detmn. of silver in, by spectrophotometry, 2B21
 - by voltammetry, 8B40
- detmn. of total, in foods, by mixed-acid solubilization - a.a.s., 7F7
- detmn. of trace, by inhibition of catalysis by xanthine oxidase, 11B7
- extraction - spectrophotometric, 9B21
 - in food and biological reference materials, by n.a.a., 9F4
 - in water, by a.a.s., 6B25
- detmn. of traces of, in waters and effluents, by cold-vapour a.a.s., 6H57
- extraction of, as thiocyanate complexes, 4B66
 - from water, by adsorption on iminodiacetic acid - cellulose, 2H31
 - tall oil and pyridine in, 12B25
 - with dithiocarbamates, 6B22
- measurement of free acidity in soln. of, by standard addition method, 12B28
- sampling of, in air, gold-wire trap in, 4H17
- sepn. of, by cation-exchange chromatography, 4B180
 - by ion flotation, 4B17
 - from other metals, by ion exchange, 9J44
- sepn. of oxidation states of, by t.l.c., 3B20
- sepn. of radiotracers of, by h.p.l.c., 10B19
- voltammetry of, at ring - disc electrode, 4B70
- , **alkyl-**, detmn. of impurities in, by spectroscopy, 1C13
- , **dimethyl-**, detmn. of, in air, by g.c. - a.a.s., 4H18
- , **methyl-**, detmn. of, in fish, by g.l.c., 8F33
 - in fish and shellfish, by g.l.c. with e.c.d., 4F33
- in sea-water, by gold amalgamation - a.a.s., 9H78
- Mercury alloys**, analysis of, by a.a.s., 1B166
- Mercury borate, phenyl-**, detmn. of, in pharmaceutical preparations, by a.a.s., 4E62
- Mercury chloride**, analysis of, by XRF, coincidence techniques in, 5J73
- , **methyl-**, detmn. of, in air, by g.c. - a.a.s., 4H18
- Mercury compounds**, detmn. of carbon, hydrogen and mercury in organic, 11C2
 - g.c. of organic, storage and sample-introduction systems for, 10C3
- , **phenyl-**, detmn. of, in cereals, dust, soil and food, by g.c., 11G33
- Mercury tetrathiocyanatocobaltate**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- Mercury tetrathiocyanatozincate**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- Merphalan hydrochloride**, detection of, microcrystalline reactions for, 3E46
- Mesaconitine**, detmn. of, in *Aconitum kusnezoffii* and *A. carmichaeli*, by h.p.l.c., 11E9
- Mesidine, N-(ethylaminoacetyl)-**, analysis of, by t.l.c., 10E29
- Mesitylene**, detmn. of, coulometric, 3C22
- Mesoporphyrin IX dimethyl ester**, sepn. of, by gel-permeation chromatography, 3D214
- Mestranol**, detmn. of, by t.l.c. - densitometry, 8E44
 - in mixtures, by second-derivative spectrophotometry, 12E60
- Metalaxyl**, detmn. of, in tomatoes, by g.l.c., 4G36
- Metal complexes**, high-resolution chromatography of, review, 12B3
- Metal halides**, detmn. of water in, by coulometric Karl Fischer titration, 7B105

- Metallothioneins**, detection of, in liver, by h.p.l.c. - a.a.s., 3D191
- detmn. of, in tissues, by cadmium-109 binding, 7D183
- sepn. of, by h.p.l.c. - a.a.s., gel-permeation, anion-exchange and reversed-phase columns for, 8D177
- Metallurgical analysis**, by microscopy, design of laboratory for, 5J67
- polarography and voltammetry in, review, 9B7
- Metallurgical materials**, detmn. of rare-earth metals in, by XRF, 7B62
- Metal oxides**, surface analysis, by X-ray photoelectron spectroscopy and Auger spectroscopy, 5J123
- Metals**, adsorption of surfactants and anti-corrosion oils on, ion-scattering spectrometric and secondary-ion m.s. study of, 7C66
- analysis of, by n.a.a., 3B7
 - collector for laser sampling in, 8B3
- analysis of films of, by XRF, corrections for, 7B9
- analysis of powdered, voltammetric, 11B5
- analysis of thin films of, by glow-discharge m.s., 7B7
- anodic dissolution of, in voltammetry, 5B8
- benzylidenepyrates as complexing reagents for, 10A6
- characterization of, by ICP a.e.s., sample-insertion system for, 4J123
- concentration of, extraction-chromatographic, 9B3
- co-pptn. of, with salts of arylpyrazolonylmethane dyes, 6B4
- detection of, as 1-hydroxypyridine-2-thione chelates, by t.l.c. or h.p.l.c., 6B7, 6B8
 - by sputtering and secondary-ion m.s., 6B21
- detection of transition, in marine nodules, by X-ray absorption spectrometry - contact micro-radiography, 1J61
- detmn. of, as complexes with organic compounds, by optoacoustic spectrometry, 4B18
- 1-(5-bromo-2-pyridylazo)naphthalene-2,7-diol in, 8A3
- by a.a.s., simultaneous, 9B4
- by a.e.s., graphite furnace for, 4B7
 - source for, 11J89
- by chemiluminescence or bioluminescence, review, 5A3
- by complexometric titration with anodic-stripping voltammetric detection, 5J187
- by complexometry without masking agents, 7B6
- by flame a.a.s., 11B3
 - slotted-tube atom trap for, 6J131
- by flame a.e.s. and furnace a.a.s., 9B10
- by graphite-furnace a.a.s., 11J86
- by ICP a.e.s., effect of organic solvents on, 8B12
- by ICP a.e.s. of β -diketonates, 2J84
- by n.a.a., effects of implantation by recoil and irradiation-enhanced diffusion on, 5J140
- by paper chromatography - a.a.s., 10B3
- by titrimetry, 2C23
- by XRF, polyurethan foam in, 2B7
- catechol violet and bis-quaternary ammonium salts in spectrophotometric, 12B22
- chemical - fibre optic sensors in, review, 9J68
- immobilized calcein in fluorimetric, 12A4
- in air, by a.a.s., a.e.s. or a.f.s., review, 2H8
- in air-borne particulates, by XRF, 11H9
- in aluminium, by spectrography, 6B72
- in aluminosilicate refractory materials, 6B179
- in aq. and acid soln., h.f. generator with argon plasma for, 4J124
- in aq. soln., by a.a.s. after pre-concentration on ion-exchange resin, 4B36
 - by flow-injection analysis, with u.v. and refractive-index detectors in series, 4B28
- in biological and organic materials, 5C9
- in blood, contamination from collection tubes in, 6D23
- liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
- in chrome-magnetite, 5B283
- in crude oil, review, 4C52, 7C55
- in dyes and pigments, for ecological and toxicological assessment, review, 11H2
- in estuarine sediments, by d.c. plasma a.e.s., 9H37
- in food, by a.a.s., a.e.s., XRF, n.a.a., polarography and voltammetry, review, 12F1
- in hexamethylphosphoric triamide, half-wave potential for electrochemical, 1A3
- in inorganic and biological material, by laser-assisted field-desorption m.s., 1B3
- in Italian red wines, by ICP a.e.s., 10F65
- in metal complexes, after combustion and selective trapping, 4C4
- in mineral waters, by differential pulse anodic-stripping voltammetry, 2H34
- in motor oil, by a.a.s., 4C58
- in reference materials, by electrothermal a.a.s., 9J94
- in sea-water, by n.a.a., chelating resin for, 2H32
 - review, 2H33
- in sewage and sludge, rapid digestion for, 9H84
- in silicates, by energy-dispersive X-ray spectrometry, 11B74
- in soil, colorimetric, 12G3
- in soln., by rapid-scanning a.e.s., microlitre samples in, 5J104
- in urine, by ICP a.e.s., 4D22
- in water, by a.a.s., suppression of interference in, 9H39
 - optimized spectral measurement in spectrochemical, 12H49

Metals, detmn. of, —continued

- in water and waste water, by a.a.s., manual for, 8H45
 reagents for spectrophotometric, 2A2, 2B14
 review, 4B9
 Schiff bases in spectrophotometric, 10B8
 detmn. of cadmium and lead, spectrophotometric, 7B45
 detmn. of cadmium in, by extraction - differential pulse anodic-stripping voltammetry, 11B37
 detmn. of carbon in, by coulometric - photometric titration, 5B130
 detmn. of gases in refractory, review, 10B1
 detmn. of hydrogen in, by nitrogen-15 bombardment - γ -ray detection, 12B29
 detmn. of nitrogen in, by n.a.a., 12B105
 detmn. of oxygen, nitrogen, hydrogen and carbon in, review, 4B26
 detmn. of phosphorus in, by n.a.a., 1B85
 detmn. of powdered, plate-type electrodes in, 12B12
 detmn. of silicon in, by fluoride separation - molybdenum blue spectrophotometry, 10B80
 detmn. of sulphur in, by m.s. as arsenic monosulphide ion, 12B119
 nephelometric, 10B117
 detmn. of titanium in, salicylfluorone in spectrophotometric, 8B73
 detmn. of trace, adsorbed on hair, by a.a.s. after solvent extraction, 7D15
 by a.a.s. and ICP a.e.s., review, 12J85
 by chemical-ionization m.s., 7J101
 by h.p.l.c., post-column photometric methods for, 6B26
 by h.p.l.c. with plasma emission spectrometric detection, review, 9J29
 by inhibition of catalysis by xanthine oxidase, 11B7
 by laser-enhanced-ionization spectrometry, review, 4D23
 by laser ionization spectrometry, 12B9
 by n.a.a., XRF or PIXE, review, 4A4
 in air, by g.c., review, 6H6
 in air-borne particulates, ultrasonic extraction in, 7H12
 in animals and humans, by field-desorption m.s., review, 11D10
 in flour, hay and pine needles, by a.a.s., 8F20
 in human liver, standard material for, 6D17
 in marine samples, inter-laboratory study of, 5H40
 in molybdenum and tungsten, review, 5B200
 in moss and soil, by a.a.s., a.e.s. and n.a.a., 11D22
 in reagent-grade chemicals, by resin concentration - ICP spectrometry, 8B11
 in river sediments, by reflectance X-ray spectrometry, size fractionation for, 11H32
 in sea-water, sampler for, 8H44
 in waste water, by Zeeman a.a.s. with platform furnace, 5J91
 in waters, voltammetric, review, 11H33
 detmn. of traces of, by anodic-stripping voltammetry, review, 2J121
 in rice, by a.a.s., 7F4
 in soln. of uranium and thorium, by flameless a.a.s., 7B69
 extraction and pre-concentration of, for a.a.s., 10B11
 extraction of, alkyl phosphates in, 3B1
 antipyrine derivatives in, review, 9A11
 from sediment and soil, effect of extractant pH on, 12H48
 from water, by adsorption on iminodiacetic acid - cellulose, 2H31
 diethylenetriamine-cellulose powder as sorbent in, 11H34
 macrocyclic compounds for, review, 1A4
 tall oil and pyridine in, 12B25
 with 1,4,8,11-tetrathiacyclotetradecane, 1B1
 extraction of trace, two-coil system for, 12B18
 identn. of, in alloys, electrochemical, 12B17
 in river sediments, by selective leaching, 7H30
 isotopic analysis of, by spectrometry, 6B13
 polarography of, as complexes, review, 4B12
 pre-concentration of, by extraction - chromatography, 9B2
 purpurin as reagent for, 5B25
 reagents for pptn. of, 11A10
 sampling of, in air, cascade impactors in, 10H9
 sepn. of, by cation exchange on silica, 12B2
 by h.p.l.c. with diethyldithiocarbamate-containing mobile phases, review, 8B2
 by ion-exchange chromatography on zirconium^{IV} and titanium^{IV} arsenophosphates, 6J50
 by ion flotation, 4B17
 in alloys, cation exchanger for, 9J41
 sepn. of chelates of, by chromatography on silica gel, 5B1
 by chromatography on silica gel or alumina, 5B2
 by h.p.l.c., review, 6B9
 sepn. of phosphorus from, radiochemical, 5B167
 speciation of, in water, by Donnan dialysis, 12H52
 surface analysis of, by secondary-ion m.s., 7B10
 X-ray photoelectron spectroscopy of, review, 8B4
—, heavy, detmn. of, by coulometric titration with EDTA, 7B42
 improved dithione reagent for, 5A9
 in air polluted by road traffic, 5H15
 in beef and bovine organs, by voltammetry, 12D37
 in biological fluids, 5D259B
 in canned soup after storage, 8F47
 in foods, by a.a.s., 7F5
 by low-temperature ashing and a.a.s., 7F6

Metals, heavy, detmn. of, in foods, X-ray photoelectron spectroscopy of, —continued

- sample preparation for, review, 7F3
 in fresh water, by a.a.s., flotation separation in, 2H35
 in natural waters, by anodic-stripping voltammetry, 4H54
 by extraction - ICP a.e.s., 8H47
 in plants, by a.a.s. and emission spectroscopy, 5D24
 in quicklime, hydrated lime and calcium carbonate, 9B38
 in rain and snow, by voltammetry, 12H51
 in roadside dust, by a.a.s., 3H5
 in sea-water, sampler for, 6H50
 in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
 by XRF, 4H56, 4H57
 review, 5H39
 in sewage sludge and soil, review, 10H90
 in soil, as pollution indicator, 12G2
 in technological and environmental samples, by XRF after concentration, 11B6
 in tissues, by a.a.s., 3D13
 in urban dust, by a.a.s., optimized extraction procedure for, 4H15
 in water, 6H49, 8H46
 by a.a.s., 7H31
 detmn. of trace, in water, by a.a.s., 6B25
 sepn. of, in sediments, sequential schemes for, 5H44
Metal salts, identn. of anions in, by a.a.s., 5B20
Metazide, detmn. of isoniazid formed by decomposition of, by t.l.c. and spectrophotometry, 8E83
Meteorites, analysis of, review, 11B153
—, iron, detmn. of aluminium-26 in, by tandem Van de Graaff accelerator m.s., 4B154
Methacrylic acid, analysis of oligo(ethylene glycol) esters of, by h.p.l.c., 3C67
 detmn. of, in feedstock for production of synthetic rubber, by g.l.c., 8C95
Methacrylic acid alkyl esters, sepn. of, by normal and reversed-phase t.l.c., 12C71
Methadone, detmn. of, in blood, by g.l.c., 2D70
 in blood and urine, by r.i.a., 3D51
 in faeces, with its metabolites, by direct-probe chemical-ionization m.s., 6D88
 in plasma, by g.l.c., 5D64
 by h.p.l.c., 2D72
 in urine, interference by doxylamine in, 5D58
Methaemoglobin, detmn. of, by zeroth-, first- and second-derivative spectrophotometry, 4J102
Methamidophos, detmn. of, in nectar, by g.l.c., 7D107
 on crops, spectrophotometric, 10G23
Methandienone, detection of metabolites of, in body fluids, by computerized g.l.c., 6D70
Methane, detmn. of, in air, long-range tracer for, 4H33
 in coal, by US Bureau of Mines "direct" method, correction factor for, 11C48
 in gases, by g.c., 5J6
 semiconductor sensors for, 4J7
 in methyloxiran polyethers, by g.l.c., 2C70
 in water, by g.c., 10H42
 laser detector for optoacoustic, 7C12
 detmn. of trace, in high-purity gases, by g.s.c., detector for, 7J69
 sepn. of isotopic, by capillary g.c., 9C13
—, bromo-, detmn. of, by g.c., 7C13
—, bromodichloro-, detmn. of, in drinking water, xylene as extractant for, 7H61
—, chloro-, detmn. of, by g.c., 7C13
—, dibromo-, detmn. of, in halogen lamps and gas mixtures, photometric, 8C8
—, dichloro-, detmn. of, in air, by g.l.c., 3H17
 in water, by g.l.c., 10H73
 on film-coated tablets, by g.c., 9E61
 detmn. of phosgene in, by g.l.c., 3C5
 sampling of, in air, by sorption on Tenax-GC, 2H20
—, dichlorofluoro-, detmn. of, in air, preparation and stability of standards for, 4H34
Methanearsonic acid, detmn. of, in environmental materials, foods and biological fluids, by a.a.s., 12H5
 in water, by hydride generation - a.a.s., 5H61
 sepn. of, from other arsenic species, in natural waters, by anion exchange, 6H66
Methane derivatives, trihalo-, detmn. of total, in finished waters, spectrophotometric, 10H76
Methanesulphonic acid, detmn. of, in air, by ion chromatography, 10H33
Methanethiol, detmn. of, in air and dust, by g.c., 4H29
Methanobacterium bryantii, sepn. of cobamides from, by h.p.l.c., 11D224
Methanol, analysis of industrial, British Standard for, 11C8
 detmn. of, enzyme electrode and thermistor probe for, 7J132
 formed in cell and microsome suspensions, by g.c. - m.s., 8D111
 in air, water or blood, spectrophotometric, 11H24
 in alcoholic and non-alcoholic beverages by g.l.c., 4F62
 in carbon dioxide, by g.c., calibration in, 12B81
 in gasoline - alcohol mixtures, by liquid chromatography, 10C56

- Methanol**, detmn. of, —continued
 in industrial waste waters, by spectrophotometry, 6H98
 in inhalants, by g.l.c., 2E17
 in liquid butane, by g.c., 7C58
 in petroleum, by g.l.c., 4C84
 in presence of ethanol, by redox spectrophotometry, 2C8
 in raw, waste and potable waters, 2H56
 on film-coated tablets, by g.c., 9E61
- Methapyrene hydrochloride**, detmn. of, in animal feed, human urine and waste water, by h.p.l.c. or g.c., 9G12
- Methicillin**, detmn. of, in fermentation broths, by h.p.l.c., 7E11
- Methicillin sodium**, detmn. of, by FT i.r. internal-reflection spectrophotometry, 8E29
- Methimazole**, detmn. of, in pharmaceutical preparations, by titrimetry, 4E60
 in plasma, 2,3-dichloro-1,4-naphthoquinone in spectrophotometric, 7D97
- Methionine**, detmn. of, bromamine T in titrimetric, 7D174
 by voltammetry at gold, graphite or platinum electrodes, 9D177
 in dosage forms, by amperometric titration, 8E22
 polarographic, 3E52
 spectrophotometric, 3E51
 in fish products, by g.l.c., 11F18
 in foods, by g.l.c., 6F11
 in pulses and cereals, by g.l.c., 11G2
 detmn. of carbon-11-labelled, in reaction mixtures, by preparative h.p.l.c., 5E5
- , **S-adenosyl-**, detmn. of, in biological fluids, radioenzymic, 11D175
 sepn. of, in liver, heart and brain, by h.p.l.c., 2D223
- , **copper salt**, detmn. of, in pig feed, by e.s.r., 11G21
- Methionine sulphoxide**, detmn. of, in foods, by g.l.c., 6F11
- Methiosulfonium chloride**, detmn. of, in dosage forms, by amperometric titration, 8E22
- Methocarbamol**, detmn. of, in injections and tablets, by h.p.l.c., 12E52
 in tablets, effect of segregation during grinding on, 8E4
- Methohexitone**, detmn. of, in plasma or whole blood, by g.l.c. of pentafluorobenzyl derivative, 7D73
- Methon**, alkylation studies of, by g.c., 3E22
 detmn. of, in serum, by h.p.l.c., 8D45
 detmn. of enantiomers of, in plasma or blood, by g.l.c., 12D76
- Methomyl**, detmn. of, by h.p.l.c. with post-column reaction, 7G36
- Methotrexate**, detmn. of, clinical, by enzymic cycling and pCO_2 electrode, 12D100
 in biological materials, by assay with microbial enzymes, 4D69
 by r.i.a., 5D101
 in blood, by h.p.l.c. with coulometric detection, 2D109
 in pharmaceutical preparations, spectrophotometric, 8E85
 in plasma, centrifugal analyser in enzymic, 1D67
 in serum, by enzyme immunoassay, 8D86
- , **7-hydroxy-**, detmn. of, in biological materials, preparation of standards for, 4D132
- Methylamine**, detmn. of, in air, by ion chromatography, 1H14
 in biological materials, by g.l.c., 5D174
- Methylamphetamine**, analysis of impurities in, method of synthesis in relation to, 10E28
 detmn. of, and its metabolites, in biological materials, 10D96
 in urine, by g.l.c., 8D58
 by h.p.l.c., 2E5
 in finger- and toe-nails, by g.c. - m.s., 6D102
 in hair, by g.c. - m.s., 3D62
 by m.s., 12D82
 in hair and urine, by enzyme immunoassay, 5D71
 in urine, by colorimetry, 3D63
 by g.c., 3D61
 by head-space g.c., 7D72
 by h.p.l.c., 12D81
 by r.i.a., 11D81
 extraction of, from urine, Sep-Pak C_{18} in, 4D110
 identn. of synthesis-specific impurities in, by g.l.c. - m.s., 9E39
 sepn. of, in blood and urine, by column chromatography, 5D70
- , **N-formyl-**, identn. of, in methylamphetamine, by g.l.c. - m.s., 9E39
- , **4-hydroxy-**, detmn. of, in urine, by g.c., 3D61
 extraction of, from urine, Sep-Pak C_{18} in, 4D110
- Methylamphetamine hydrochloride**, detmn. of, by g.c., 3E32
- Methyl azide**, explosion during synthesis of, 8A27
- Methylcholine chloride**, detmn. of, in pharmaceutical preparations, by g.c., 12E50
- Methyldopa**, detmn. of, by anodic voltammetry, 12E45
- Methylenedioxymphetamine**, differentiation of, from its 2,3-isomer, 8E64
- Methylephedrine**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 5E10
 extraction of, from urine, Sep-Pak C_{18} in, 4D110
- Methylerythromycin**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 9E8
- Methylphenidate**, detmn. of, in urine, by g.l.c. - e.c.d., 2D49
 identn. of, in illicit preparations, microcrystalline, 12E6
- Methylphenobarbitone**, detmn. of, by potentiometric titration with mercury, 4E36
 in plasma, by g.l.c., 3D45
- Methylprednisolone**, detmn. of, in plasma, by h.p.l.c., 9D57
- Methyl red**, detection of, on filters, by surface-enhanced Raman scattering spectrometry, 12C60
- Methylthiouracil**, detmn. of, in thyroid gland and muscle of cattle, by high-performance t.l.c., 7D95
- Methypyrone**, detmn. of, and its metabolite, in plasma, by h.p.l.c., 7D56
- Metoclopramide**, detmn. of, by t.l.c. - fluorimetry, 12E51
 in biological fluids, by h.p.l.c., 10D104
 in blood plasma, by g.l.c., 4D119
- Metoclopramide hydrochloride**, detmn. of, in dosage forms, by spectrophotometry, 1E29
- Metocurine iodide**, detmn. of, in plasma, by h.p.l.c., 11D83
- Metol**, detmn. of, in aq. soln., by potentiometric titration, 4C36
 spectrophotometric, 12C27
- Metoprolol**, detmn. of, and its α -hydroxy-metabolite, in plasma, by h.p.l.c., 9D78
 in plasma, by h.p.l.c., 5D79
- Metoxuron**, detmn. of, in water, plants and soil, by g.c., 3G17
- Metribuzin**, detmn. of, in runoff water from wheat fields, by h.p.l.c., 11G29
- Metronidazole**, detmn. of, and its metabolites, in plasma, by h.p.l.c., 12D95
 in dosage forms, by h.p.l.c., 2E44
 by spectrophotometry, 1E31
 in plasma, by h.p.l.c., 6D117
 in urine and blood, by g.l.c., 9D91
- Mevinphos**, detmn. of, enzyme electrode for, 5H82
- Mexiletine**, detmn. of, in serum or plasma, by h.p.l.c., 9D82
 with its metabolites, in serum, by h.p.l.c., 2D95
 g.l.c. of, with polyoxyethylene glycol liquid phases, interaction of chloroform with, 6E47
- Mezlocillin**, detmn. of, in serum, by h.p.l.c., 6D63, 9D46
- Mezlocillin sodium**, detmn. of, in aq. or sugar soln., by h.p.l.c., 8E27
- Mianserin**, detmn. of, in plasma, by h.p.l.c., 9D72
- Miconazole**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E4
- Micro-analysis**, nomenclature for *in situ*, 7A1
- Microbiological analysis**, head-space g.l.c. in, 5J50
- β_2 -Microglobulin**, detmn. of, by luminescence catalyst immunoassay, 5D202
 in biological fluids, by nephelometry, 7D196
 in plasma and urine, by immunoassay, 1D154
 in serum, by r.i.a., inter-laboratory study of, 2D195
- Micrometers**, motorized slide for, with micrometre resolution, 5J3
- Micronomicin**, detmn. of, in serum, by h.p.l.c., 9D51
- Micro-organisms**, analysis of, by direct m.s., 11D9
 by g.c. - m.s., 11D259B
 by m.s., 10A1B
 chromatographic, for classification purposes, 8D9
 detmn. of amines in, by g.c., 7D154
 detmn. of catechol siderophores in, colorimetric, 3D131
 detmn. of FAD in, by luminescence, 3D233
 detmn. of glutathione in, by h.p.l.c., 2D187
 detmn. of muramic acid in marine, by h.p.l.c. with pre-column derivatization, 7D114
 detmn. of muramic and diaminiopimelic acids and the ratio of D- to L-alanine in, by g.c., 8D170
 detmn. of nitrogen in, with ammonia-selective electrode, 2D35
 detmn. of organic acids in cultures of, 6D160
 detmn. of ornithine-containing lipids in, by m.s., 2D146
 detmn. of poly-(3-hydroxybutyric acid) and polyphosphate in, 4D155
 detmn. of protocatechuic and homoprotocatechuic acids in, spectrophotometric, 4D160
 estimation of, in environmental samples, by g.l.c. detmn. of glycerol content, 7H64
 identn. of phospholipids in, by t.l.c., 7D135
 measurement of respiratory activity of, in sewage, by electrometric detmn. of carbon dioxide from, 12H97
 methanogenic, detmn. of coenzymes in, by h.p.l.c., 1D150
- Microscopy**, applications of optical, in consultancy laboratory, 1J58
 atom-probe field-ion, sample preparation in, 2J62
 chromatic scattering, elementary analysis by, 9B6
 computer enhancement of low-light images in, 4J87
 design of analytical laboratory for, 5J67
 polarization, in cereal science, 9A3B
- , **X-ray**, progress in, review, 1J59
- Microsomes**, sepn. of Emulgen 911 from prep. of, by h.p.l.c., 3D172
- Midazolam**, detmn. of, in plasma, by g.l.c. and radioreceptor assay, 6D103
- Milk**, analysis of, 10A2B
 reference methods for ultra-trace, 7F51
 analysis of lipids in, 7F50
 analysis of protein concentrates of, reproducibility of, 5F30
 detection of aflatoxin M_1 in, by t.l.c., 5F29
 detection of benzylpenicillin and cloxacillin in, by t.l.c., 6F51
 detection of β -lactam antibiotics in, by enzymic colorimetry, 2F27
 detmn. of aflatoxin M_1 in, by h.p.l.c., 2F23, 12F20
 by h.p.l.c. with fluorescence detection, 10F38
 by t.l.c., 4F38, 9F29
 by t.l.c. after clean-up by gel permeation, 5F28

Milk—continued

- detmn. of aflatoxins in, 2G13
 evaluation of standard methods for, 10F7
 detmn. of aminoglycoside antibiotics in, by pptn. and spectrophotometry, 8E37
 detmn. of calcium, magnesium, chloride and lactose in, clarification procedure for, 4F40
 detmn. of calcium in, 1,3-bis-(2-pyridylmethyleneamino)urea in spectrophotometric, 9B36
 detmn. of cartap in, by colorimetry or fluorimetry, 3H66
 detmn. of κ -caseins in, by enzyme immunoassay, 2F24
 detmn. of chlorinated pesticides in, by g.l.c. with e.c.d., 7F52
 detmn. of chlorobenzenes in, by g.l.c., 7F16
 detmn. of cholesterol in, by h.p.l.c., 11F22
 detmn. of citrate in ultra-filtrate of, by spectrophotometry, 6F49
 detmn. of citric acid, by titration with copper, 3F17
 detmn. of coumaphos and its oxygen analogue in, by h.p.l.c. and g.c. - m.s., 7F48
 detmn. of cow's, in goat's milk, 3F18
 by polyacrylamide gel electrophoresis, 10F43
 detmn. of ethoxyquin in, by h.p.l.c., 4F41
 detmn. of fat in, sampling bottles for, 6F40
 detmn. of fats and proteins in, by i.r. absorption spectrometry, automated analyser in, 10F40
 detmn. of formaldehyde in, by h.p.l.c. of hydrazone, 9F34
 detmn. of free fatty acids in, by g.l.c., 10F36
 by ion exchange and g.l.c., 8F38
 detmn. of iodine in, by XRF spectrometry, 7F56
 detmn. of iodine-129 in, by X-ray spectrometry, 7F59
 detmn. of lactate in, enzymic, 7F54
 detmn. of lactose in, 7F53
 by h.p.l.c., 11F23
 detmn. of lead in evaporated, by anodic-stripping voltammetry, 7F62, 7F63
 detmn. of metals in, by a.s., 11F20
 detmn. of *N*-nitrosodimethylamine in non-fat dried, by g.l.c., 12F21
 detmn. of oestradiol in, by r.i.a., 5D147
 detmn. of organochlorine pesticides in, by g.l.c., 4F39
 detmn. of orotate in, by h.p.l.c., 4D287
 detmn. of paraquat in, by colorimetry after Sep-Pak C_{18} extraction, 7D101
 detmn. of penicillin antibiotics in, by h.p.l.c., 1F14
 detmn. of peptides liberated in tryptic hydrolysis of, by h.p.l.c., 11F21
 detmn. of pesticides in, by t.l.c., 6F16
 by t.l.c. or g.l.c., 9F11
 detmn. of phenylbutazone in, by h.p.l.c., 2D69
 detmn. of plasmin and plasminogen in, by spectrophotometry, 7F55
 detmn. of progesterone in, by enzyme immunoassay, 6D188
 detmn. of proteolysis in, by spectrophotometry, 6F50
 detmn. of proteolytic activity of *Pseudomonas fluorescens* in UHT, azocasein as substrate for, 9F32
 detmn. of pyrantel in, by t.l.c., 2F25
 detmn. of retinol, ergocalciferol and cholecalciferol in fortified, by h.p.l.c., 10F39
 detmn. of taurine in, fluorimetric, 8D169
 detmn. of tin in sterilized canned, by spectrophotometry or a.s., 10F41
 detmn. of trace elements in, by PIXE, 5D36
 detmn. of trace elements in reference standard of, by n.a.a., 9F4
 detmn. of trace fluorine in, by molecular-absorption spectrophotometry, 9F31
 detmn. of trace zinc in, kinetic - fluorimetric, 6F47
 detmn. of zomepirac in, by g.l.c., 4D96
 extraction of caesium-137 and strontium-90 from, with cobalt dicarbollide, 5D18
 extraction of PCB from monkey, solvents for, 5D111
 identn. of coumaphos and its oxygen analogue in, by g.c. - m.s. and h.p.l.c. - m.s., 7F49
 identn. of proteins of, in sheep cheese, immunochemical, 4F43
 identn. of whey proteins in, by size-exclusion chromatography, 7F57
 sepn. of aflatoxins in, by high-performance t.l.c., 9J50
 sepn. of metabolites of xenobiotics in, by ion-exchange chromatography, 2D123
 sepn. of proteins in, gel-permeation or anion-exchange chromatographic, 2F26
 —, **goat's**, detmn. of cow's milk and water in, 3F18
 detmn. of cow's milk in, by polyacrylamide gel electrophoresis, 10F43
 —, **human**, analysis of fatty acids in, by g.l.c., 6D173
 detmn. of aminoglycoside antibiotics in, spectrophotometric, 12D69
 detmn. of atenolol in, by h.p.l.c., 4D116
 detmn. of cephalosporins in, by h.p.l.c., 2D57
 detmn. of *pp'*-DDT, beta-HCH, PCB, dieldrin, hexachlorobenzene and *pp'*-DDE in, by g.c., 1D78
 detmn. of lipids in, review, 12D132
 detmn. of metals in, by a.s., 11F20
 detmn. of PCB and DDE in, by extraction - g.c., 10D113
 detmn. of PCB in, by high-resolution g.c., 12D106
 detmn. of riboflavin in, by fluorimetry, 3D242
 detmn. of thiamine in, by h.p.l.c., 6D288
 detmn. of thyroxine and tri-iodothyronine in, by r.i.a., 3D153

Milk—continued

- detmn. of timolol in, by h.p.l.c., 8D66
 detmn. of trace elements in, by XRF, 9D16
 sepn. of whey proteins in, by h.p.l.c., 7D184
Milk fat, analysis of, in milk products, 6F41
 detection of, in chocolate, by capillary g.c., 11F37
 detmn. of, by i.r. spectrophotometry, 6F48
 in cocoa and chocolate, 10A2B
 detmn. of ascorbyl palmitate in, by h.p.l.c., 10F46
 detmn. of fatty acids in, by g.l.c., 6D171
 detmn. of free fatty acids in, by g.l.c., 10F36
 detmn. of free fatty acids in anhyd., by titrimetry, 6F44
 detmn. of moisture content of anhyd., by titrimetry, 6F42
 detmn. of solids content of mixtures of cocoa butter and, 11F39
 estimation of non-fat residue and fat content of anhyd., 6F43
 measurement of peroxide value of anhyd., 6F46
 measurement of refractive index of anhyd., 6F45
Milk powder, detection of aflatoxin M_1 in, by t.l.c., 5F29
 detmn. of aflatoxin M_1 in, by t.l.c., 4F38, 6F52, 9F29
 detmn. of antioxidants in, by t.l.c. or h.p.l.c., 8F12
 detmn. of casein in, by rocket immunoelectrophoresis, 7F60
 detmn. of free fatty acids in, by g.l.c., 10F36
 detmn. of iodine in, by h.p.l.c., 7F58
 detmn. of lactate in, enzymic, 1F15, 7F54
 detmn. of lactose in, automated spectrophotometric, 1JF37
 detmn. of metals in, ashing method for voltammetry, 7F61
 detmn. of metals in reconstituted, by a.s., 11F20
 detmn. of rennet whey in, by h.p.l.c., 9F35
 detmn. of retinol, ergocalciferol and cholecalciferol in skimmed, by h.p.l.c., 10F42
 detmn. of skimmed-, in feeding-stuffs, 10A2B
 in food and feedstuffs, 6G20
 detmn. of *t*-butylquinol in, by g.l.c., 8F37
 detmn. of water, fat, lactose and protein in, by diffuse-reflectance i.r. spectrophotometry, 2F28
Millet, detmn. of potassium in, by dil. acid extraction and a.s., 9G3
Mimosine, detmn. of, in plasma, by h.p.l.c., 3D82
Minerals, ores and rocks, analysis of, automated apparatus for fusion before ICP a.e.s., 6J18
 by a.s., portable instrument for, 12J93
 by a.s. after laser atomization, 7B139
 by γ -activation, 8B5
 by ICP a.e.s., 1B153, 5J98, 11B155
 by instrumental n.a.a., interference by uranium in, 5B96
 by laser micro-spectrography, standards for, 5B229
 by secondary-ion m.s., 4B193
 by spark-source m.s., 3B109
 by spectrography, 1B8
 by XRF, 11A6B
 correction of matrix effects in, 5J76
 portable analyser for, 1B152
 inter-laboratory study of, 5B268
 micro-probe, 10A4B
 potassium superoxide as flux for, 5B270
 reference materials for, review, 6A4
 review, 11B153
 standards for, 1A5
 analysis of concentrates of, from industrial enrichment system, densimetric - magnetic - flotometric, 8B126
 analysis of reference, by laser-source m.s., 11J114
 analysis of silicate, by XRF spectrometry, 4B107
 analysis of uranium- and titanium-containing "metamict", by ion-exchange chromatography - spectrophotometry, 9B80
 apatite - nepheline, analysis of, by γ -activation analysis, 3B108
 detection of asbestos in, by microscopy, 1B157
 detmn. of alumina and silica in, by cyclic n.a.a., 11B157
 detmn. of aluminium in, by spectrophotometry, reagent for, 4B73
 8-hydroxyquinoline-5-sulphonic acid and surfactant in fluorimetric, 12B54
 detmn. of arsenic, cadmium and zinc in, by emission spectrography, 7B47
 detmn. of arsenic in, by a.s., memory effects in, 2B62
 by spectrophotometry, 2B61
 by XRF, 6B114
 detmn. of barium and rare-earth metals in, by X-ray spectroscopy, 11B44
 detmn. of bismuth in, by hydride-generation a.s., 8B85
 by polarography, 7B90
 detmn. of boron, beryllium and lithium in, by spark optical-emission spectroscopy, 5B18
 detmn. of boron in, by ion-selective electrode, 5B71
 detmn. of cadmium in, 1,3-bis-(4-nitrophenyl)triazene in spectrophotometric, 10B47
 by a.s., calculation of interference in, 7B46
 detmn. of calcium and magnesium in, bis-(2-ethylhexyl) phosphate in, 6B55
 detmn. of carbon, nitrogen, oxygen, aluminium and calcium in, by ion-beam bombardment - annihilation γ -ray detection, 12J141
 detmn. of carbonate, sulphate, pyrite and organic material in, by thermal analysis, 1B154

Minerals, ores and rocks,—continued

- detmn. of carbon in, 7B70
 detmn. of carbon in extraterrestrial, contamination in, 9B88
 detmn. of cerium-group rare-earth metals in, by spectrophotometry, 7B63
 detmn. of chlorine in, by ion-selective electrode, 4B144
 detmn. of chlorophyll derivatives in, by h.p.l.c., 6D268
 detmn. of cobalt in, by voltammetry and polarography, review, 3B100
 by XRF, 2I66
 spectrophotometric, 3B101
 detmn. of copper, lead and zinc in beneficiation products of, by a.a.s., 9B9
 detmn. of copper and palladium in, *p*-anisaldehyde thiosemicarbazone in spectrophotometric, 9B164
 detmn. of copper in, by complexometric titration, 1B20
 by polarography, 6B43
 by spectrophotometry, 4B37, 6B44
 formazan derivative in, 3B28
 detmn. of cyanide in leachate from, flow-injection, 10B79
 detmn. of europium and samarium in, by fluorimetry, 5B100
 detmn. of fluoride in, by ion chromatography, 6B137
 detmn. of germanium in, by spectrophotometry, 6B97
 detmn. of gold and silver in, by a.a.s., 3B40
 detmn. of gold in, by automated n.a.s., 5B50
 by extraction chromatography, 8B33
 by flameless a.a.s., 6B52
 by n.a.s., 4B58
 californium neutron source in, 5B52
 by spectroscopy, 5B51, 7B37
 cyanide-selective electrode in potentiometric, 12B45
 ion-selective electrode, 10I133
 kinetic - spectrophotometric, 9B30
 polymethacrylate adsorbents for chromatographic, 6B51
 detmn. of iron, lead and zinc in, by XRF, 11B36
 detmn. of iron in, by γ -activation, 3B89
 by spectrophotometry, reagent for, 2B69
 by XRF, correction of particle size effect in, 4J91
 mercaptoacetic acid in spectrophotometric, 7B116
 salicylaldehyde thiosemicarbazone in fluorimetric, 10B137
 detmn. of isotopes of sulphur in, by m.s., 12B91
 detmn. of isotopic ratio of sulphur in, sulphur dioxide standards in, 9B119
 detmn. of lanthanoids in, by polarography of catalytic waves, 10B63
 detmn. of light elements in, by α -particle-induced γ -ray emission, 5B10
 detmn. of magnesium, aluminium and silicon in, by n.a.s., 3B16
 detmn. of manganese and vanadium in, by titrimetry, 4B145
 detmn. of mercury, selenium and arsenic in, by a.f.s., 4G14
 detmn. of mercury in, by a.a.s., 6B61
 detmn. of metals in, by flame a.a.s., 11B3
 by n.a.s., 4B194
 detmn. of molybdenum in, by a.a.s., 11B111
 by complexometric titration, 12B127
 by spectrophotometry, 6B133
 micellar solubilization in spectrophotometric, 10B122
 detmn. of nickel and copper in, extraction - spectrophotometric, 6B166
 detmn. of niobium in, morin in fluorimetric, 3B71
 detmn. of noble metals, gold and silver in, by a.a.s., 9B160
 detmn. of noble metals in, by extraction - a.a.s., 1B138
 by n.a.s., co-pptn. with tellurium in, 5B250
 detmn. of osmium in, by chromatography - a.f.s., 1B147
 perphenazine in spectrophotometric, 12B170
 detmn. of oxygen in, by n.a.s., 10B114
 detmn. of palladium in, by spectrophotometry, 4B183
 spectrophotometric, 9B166
 detmn. of phosphorus in, by molecular-emission cavity analysis, 9B104
 detmn. of platinoids in, by electrothermal a.a.s., 11B150
 detmn. of rare-earth metals in, by sample-isolated secondary-ion m.s., 8B53
 by spark-source m.s., 9B72
 by spectrophotometry, 5B88
 by XRF, 7B62
 detmn. of samarium in, polarographic, 9B75
 detmn. of selenium and arsenic in, by pulsed-excitation spectroscopy, 11B105
 detmn. of selenium in, by automated hydride generation - a.a.s., 10B120
 detmn. of silver, palladium and tellurium in, by isotope-dilution m.s., 5A17
 detmn. of silver in, by a.a.s., 4B54, 7B32
 by n.a.s., yield tracers in, 12J138
 4-(5-chloro-2-pyridylazo)-*m*-phenylenediamine in spectrophotometric, 12B42
 detmn. of tantalum in, by spectrophotometry, 1B96
 hexafluorotantalate-selective electrode in potentiometric, 12B116
 in presence of niobium, by spectrophotometry, 6B121
 detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60
 by differential pulse anodic-stripping voltammetry, 12B61
 detmn. of thorium in, by epithelial n.a.s., 5B107
 by ion-exchange chromatography, 4B85
 by spectrometry, 5B106
 by XRF, 7B66

Minerals, ores and rocks,—continued

- detmn. of tin and tungsten in, by XRF spectrometry, 6B99
 detmn. of tin in, by difference chelatometric titrimetry, 12B88
 by electrothermal a.a.s., 7B78
 by titration or a.a.s., 7B77
 Triton X-155 in oscillographic, 12B87
 detmn. of titanium in, by a.a.s., 1B76, 5B155
 by n.a.s., 11B82
 by reduction - coulometry, 6B103
 detmn. of trace elements in, by a.a.s., pre-concentration for, 6B151
 by flameless a.a.s., 5B269
 detmn. of trace metals in, by a.a.s., 1B151
 detmn. of tungsten in, by ICP a.e.s., 11B116
 detmn. of uranium, thorium and potassium in, by XRF, 9B82
 detmn. of uranium and thorium in, by extraction chromatography - spectrophotometry, 10B71
 by XRF, 9B79
 detmn. of uranium in, by a.a.s., 1B58
 by spectrophotometry, 5B112
 by spectrophotometry after sepn. on tributyl phosphate-impregnated resin, 3B59
 by X-ray spectrometry, 1B59
 fluorescence-enhancing agents in laser spectrofluorimetric, 7B68
 oscillographic, 10B87
 detmn. of vanadium in, salicylhydroxamic acid and thiocyanate in, 7B91
 spectrophotometric, 10B105
 detmn. of yttrium oxide and zirconium dioxide in, by XRF, 11B8
 flotation liquids for, detmn. of T-66 in, spectrophotometric, 7B140
 identn. of, by optoacoustic spectrometry - d.t.a., 10B172
 identn. of tricyclic terpenes in, by g.c. - m.s., 11B156
 phosphorus - yttrium, detmn. of uranium in, ion-selective electrode for, 11J128
 sepn. of diamond-bearing, by XRF, 9B176
 sepn. of iron and copper in, 5B226
 sepn. of metals in, by ion-exchange chromatography on zirconium^{IV} and titanium^{IV} arsenophosphates, 6J50
 sepn. of trace thallium from, by volatilization, 12B62
 —, —, **carbonate**, analysis of, non-dispersive i.r. detectors in thermal, review, 8B127
 detmn. of carbon dioxide in, by coulometry, 1B65
 detmn. of manganese in, standard material for, 7A7
 —, —, **phosphate**, certification of, as reference material, 5A16
 detmn. of sulphur in, titrimetric, 9B118
 detmn. of trace elements in, 4A8
 detmn. of uranium, radon and lead in marine, by γ -ray spectrometry, 4B87
 detmn. of uranium in, with solid-state nuclear track detectors, 1B87
 —, —, **silicate**, analysis of, by instrumental n.a.s., interference in, 5B140
 analysis of films of, by m.s., layer-by-layer, 9B91
 detmn. of arsenic, cobalt, chromium, nickel and selenium in reference materials, by a.a.s., 9B92
 detmn. of beryllium in, extraction - spectrophotometric, 11B31
 detmn. of caesium in, instrumental and radiochemical, 10B28
 detmn. of calcium in, by flow-injection a.a.s., 2B51
 detmn. of elements in, by XRF, 8B66
 detmn. of gold in, by co-pptn. - n.a.s., 7B76
 detmn. of iron and titanium in, by spectrophotometry, 5B141
 detmn. of iron in, mercaptoacetic acid in spectrophotometric, 7B116
 detmn. of iron^{II} in, titrimetric, 11B78
 detmn. of lanthanoids in, by ICP a.e.s., 11B76
 detmn. of light elements in, by α -particle bombardment - prompt γ -ray spectrometry, 9B175
 detmn. of metals in, by a.a.s., solubilization in, 1B155
 detmn. of molybdenum and tungsten in, by extraction chromatography - spectrophotometry, 8B100
 detmn. of palladium, iridium and platinum in, by n.a.s. with radiochemical sepn., 12B85
 detmn. of phosphorus in, flow-injection spectrophotometric, 12B83
 detmn. of rare-earth metals in, by n.a.s., XRF measurement of carrier yields in, 10B84
 detmn. of silica in, spectrophotometric, 8B67
 detmn. of trace metals in, by a.a.s., 4B108
 by energy-dispersive X-ray spectrometry, 11B74
 detmn. of tungsten in, spectrographic, 6B96
 —, —, **sulphide**, detmn. of barium in, by flame a.a.s., 1B35
 detmn. of gold and silver in, by a.a.s., 3B41
 detmn. of osmium in, by stripping voltammetry, 6B174
 detmn. of platinum and palladium in, by ion exchange with ICP a.e.s. detection, 12B173
Minocycline, detmn. of, spectrophotometric, 9E22
Minoxidil, detmn. of, in tablets, by differential pulse polarography, 4E50
Mint, analysis of, by temp.-programmed-fractionation m.s., 12E22
Mitomycin, detmn. of, in plasma and urine, by differential pulse polarography, 8D42
 by h.p.l.c., extraction method for, 11D59, 11D60
 in serum, by h.p.l.c., 10D75
Mitoxantrone, detmn. of, in blood plasma, by h.p.l.c., 4D127
 in urine, by h.p.l.c. with electrochemical detection, 8D84
MM 19290, sepn. of, from other tunicamycinuracil-based antibiotics, by h.p.l.c., 4E28

- Moclobamide**, detmn. of, in plasma, by g.c., 7D71
- Molasses**, detmn. of amino-acids in, by g.l.c., 6F23
detmn. of organic acids in, by h.p.l.c., 4F14
detmn. of sugars and betaine in, by h.p.l.c., 7F30
detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.l.c. - m.s., 6F26
detmn. of total fermentable sugars in, by enzymic analysis - spectrophotometry, 4A1B
- Molluscs**, detmn. of lead in, by graphite-tube a.a.s., 8D28
detmn. of phthalates in marine, by g.c. - m.s., 11H65
detmn. of selenium in, by a.a.s., 3D26
- Molybdate**, identn. of, by paper chromatography, 11B15
sepn. of, from other oxoanions, by ion-exchange chromatography, 5B194
- , **octacyano-**, detmn. of, by conductometric titrimetry, 3B81
- Molybdenite**, detmn. of molybdenum in, by complexometric titration, 12B127
catalytic, 6B130
X-ray, 10B121
detmn. of platinum in, by electrothermal a.a.s., 11B150
detmn. of rhenium in, by column chromatography - spectrophotometry, 1B116
- Molybdenum**, analytical chemistry of, 4B204B
complexes of, by fast-atom-bombardment and field-desorption m.s., study of, 5B21
detmn. of, azo-derivatives of catechol in spectrophotometric, 11B113
by a.a.s., atomizers for, 6B134
by complexometric titration as ternary complex, 12B127
by polarography, reagent for, 6B132
by potentiometry or titration, electrode for, 8B99
by spectroscopy, effect of zirconium on, 5B202
by spectrophotometry, 6B129
by spectrophotometry after complexation with thiocyanate and amide, 4B136
by spectrophotometry with oxidized haematoxylin, 5B201
by sublimation - spectroscopy, 9B130
catechol violet - chlorpromazine in spectrophotometric, 3B70
cinnamohydroxamic acids in spectrophotometric, 2B4
5,7-dibromoquinolin-8-ol in spectrophotometric, 4B137, 9B131
haematein in spectrophotometric, 7B100
in aq. and acid soln., h.f. generator with argon plasma for, 4J124
in argillites, by a.a.s., 3B78
in biological tissues, by a.e.s., optimization of volatilization in, 5D37
in bone, by ICP a.e.s., 2D10
in brines and water, by a.a.s., 4H64
in cereals, seaweed or liver, by ion exchange - spectrophotometry, 4D57
in coal, by differential pulse polarography, 8B132
in lubricating oil, by titration with hexafluorosilicic acid - dimethyl-formamide adduct, 9C55
in manganese dioxide, by spectrophotometry, 8B109
in molybdenite, catalytic, 6B130
X-ray, 10B121
in ores and steel, *N*-phenylbenzimidoyl derivatives in spectrophotometric, 6B133
in plants, by a.a.s., 12D48
by differential pulse polarography, 3D27
in platinum, by spectroscopy, after electrolytic sepn., 2B83
in potassium polyphosphate fertilizer, by a.c. polarography, 5G19
in refractory materials and steel, by XRF, 1B105
in rocks, by extraction - a.a.s., 11B111
in sea-water, by spectrophotometry, 7H48
in sewage sludge and soil, by spectrophotometry, 2H66
in steel, by γ -activation, 3B96
by emission spectrometry, Grimm lamp in, 10B149
by spectroscopy, hollow-cathode discharge tube for, 5B235
in titanium alloys, by ICP a.e.s., 12B94
extraction - voltammetric, 10B90
in tungsten concentrate, polarographic, 9B134
in tungsten-containing silicate ores, by extraction chromatography - spectrophotometry, 8B100
in uranium, by differential pulse polarography, 4B96
in water, by a.a.s., 9B128
by ion-exchange chromatography, 5B194
by n.a.a., 6H47
iodide-selective electrode and Landolt-type hydrogen peroxide - iodide reaction in, 6B131
micellar solubilization in spectrophotometric, 10B122
Peregol O surfactant in colorimetric, 3B80
propane-1,2-diaminetetra-acetic acid in spectrophotometric, 3B77
pyrazolin-5-ones in extraction - spectrophotometric, 11B112
salicylohydroxamic acid in spectrophotometric, 10B124
spectrophotometric, 9B129
as molybdenum blue, 10B126
5-sulpho-3-(2,3,4-trihydroxyphenylazo)salicylic acid in spectrophotometric, 12B128
titrimetric, 10B123
detmn. of boron in, by ICP a.e.s., 11B40
detmn. of silicon and arsenic in, by chlorination - m.s., 8B64
detmn. of trace, in food and biological materials, spectrophotometric, 7F10
- Molybdenum**, detmn. of trace,—*continued*
in food and biological reference materials, by n.a.a., 9F4
in tungsten, by flame spectrometry and polarography, 7B102
detmn. of trace metals in, review, 5B200
extraction of, ethylxanthate or diphenylcarbazone in, 10B125
from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
sepn. of, ferron in, 3B79
from other metals, 4-(5-nonyl)pyridine and thiocyanate in extractive, 11B115
from tungsten, on mercaptoacetic acid-bonded resin, 11B114
from vanadium, resin for, 5B203
sepn. of radiotracers of, by h.p.l.c., 10B19
solvent extraction of, 4B27
surface density measurement of thin films of, by XRF, 4J93
- Molybdenum-99**, detmn. of, by differential pulse polarography, 1B104
in waters, by n.a.a., 9H55
- Molybdenum alloys**, analysis of, by X-ray spectrometry, 11B11
- Molybdenum disulphide**, detmn. of, in electrochemical coatings, by voltammetry, 9B154
- Molybdophosphate**, solvent - solvent extraction of, ternary system for, 12J7
- Monazite**, detmn. of rare-earth metals in, by spark-source m.s., 5B94
- Monazite sand**, detmn. of lanthanoids in, by spectrophotometry, 11B46
- Monensin**, detection of, by t.l.c. - m.s., 8J51
detmn. of, by voltammetry, 6E29
in poultry meat, by t.l.c., 5F20
- Monensin sodium**, detmn. of, in feeds, by t.l.c. and bioautography, 7G22
- Mono(adenosine diphosphate ribosyl) transferase**, detection of, in *Xenopus* tissues, by zymographic localization in sodium dodecyl sulphate - polyacrylamide gels, 10D252
- Mono-ADP-ribosyltransferase**, assay of, guanylylhydrazones in, 5D241
- Monomycin**, detmn. of, in biological fluids, spectrophotometric, 12D69
- Monosaccharides**, detmn. of, by anion-exchange chromatography, 2C17
by g.c., derivatization catalyst for, 12D111
by g.l.c., 5C21
by h.p.l.c., as dimethylphenylsilyl derivatives, 1D89
by h.p.l.c. and t.l.c. of dimethylphenylsilyl derivatives, 4C13
in pharmaceutical preparations, by h.p.l.c., 11E54
in proteoglycans, by g.c. - m.s., 6D258
detmn. of organic acids in hydrolysates of, isotachophoretic, 10C73
sepn. of, by h.p.l.c., 2C12, 3C9
by t.l.c., 1D83
- , **amino-**, detmn. of, in proteoglycans, by g.c. - m.s., 6D258
- Monosodium glutamate**, detmn. of, in foods, by g.c., clean-up and derivatization procedure for, 7F21
- Montanoa tormentosa**, detmn. of grandiflorenic acid of, by h.p.l.c., 3E15
- Montmorillonite**, monitoring of praseodymium adsorbed on, optoacoustic, 11B50
- Morantel tartrate**, identn. of, X-ray powder diffraction data for, 8E84
- Moricizine**, detection of, in aq. or acidic soln., 3E35
- Morphinan, 3-methoxy-**, detmn. of, in urine, by h.p.l.c., 9D89
- Morphinan-3-ol**, detmn. of, in urine, by h.p.l.c., 9D89
- Morphine**, detection of, in urine, by test-strip immunoassay, 4D72
detmn. of, by g.c., low-adsorption-activity supports for, 3J57
in biological fluids, by enzyme immunoassay and h.p.l.c., 11D42
in plasma, by h.p.l.c., 2D51, 10D54
in post-mortem blood, by g.l.c., 5D46
in serum and urine, by h.p.l.c., 5D45
in urine, by g.l.c., 3D32
by haemagglutination, 11D40
by haemagglutination inhibition, 1D41
Tropaeolin OO in spectrophotometric, 8E10
with its metabolites, in urine, by g.c. - m.s., 2D52
g.c. of perfluoroacetylated, capillary columns for, 6E7
sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
- , **O³-acetyl-**, detmn. of, in diamorphine, by t.l.c. and h.p.l.c., 3E2
identn. of, as diamorphine decomposition product, by h.p.l.c. and g.c., 5E8
- , **O⁶-acetyl-**, detection of, in illicit narcotics, by g.l.c., 11E4
- , **dihydro-**, sepn. of, from other alkaloids, by ion-exchange chromatography, 2E7
- Morphine hydrochloride**, detection of impurities in soln. of, by t.l.c., 12E9
- Morpholine**, detmn. of, bromanil in spectrophotometric, 10C47
in water, by ion chromatography, 8H82
- Morpholinium methylsulphate, 4,4'-dimethyl-**, detmn. of, extraction - spectrophotometric, 8C48
- Moss**, detmn. of trace metals in, by a.a.s., a.e.s. and n.a.a., 11D22
- Mothproofing agents**, analysis of, by g.c. - m.s., review, 8H3
- Moths**, detmn. of pheromones in, by g.c. - m.s., 11G41
- Mouth-washes**, detmn. of saccharin in, by t.l.c., 5C93
- Moxaverine**, sepn. of, by t.l.c., 1E7
- Mucopolysaccharides**, detmn. of, in plasma, by "rocket" electrophoresis, 5D119
in synovial fluid, by laser nephelometry, 1D84
sepn. of, from lung, by chromatography on poly-L-lysine-Sepharose, 11D123
sepn. of acid, by electrophoresis on cellulose acetate, 11D125
- Mud**, analysis of therapeutic, by n.a.a., 11E53
- Multi-element analysis**, by ICP a.e.s., detection systems for, 10J98

Multi-element analysis—continued

- by ICP a.e.s. with graphite furnace, optimization of, 8J91
internal standards for, by ICP a.e.s., 5B4
- Multivitamin preparations**, detmn. of copper and zinc in, by anodic-stripping voltammetry, 3E17
detmn. of ergocalciferol in, by h.p.l.c., 2E23
detmn. of pantothenic acid derivatives in, by g.l.c., 12E33
detmn. of water-soluble vitamins in, by extraction - h.p.l.c., 9E31
- Muramic acid**, detmn. of, by h.p.l.c. with pre-column derivatization, 7D114
in bacteria or peptidoglycans, by g.c. with e.c.d. or selected-ion monitoring, 8D170
in fermentation broths, by t.l.c., 5D120
in sediments, by hydrolysis, derivatization and h.p.l.c., 8H80
- Muscle**, assay of calcium-dependent proteinase in, 1D230
detmn. of anserine and carnosine in, by spectrophotometry, 4D234
detmn. of chloramphenicol in, by g.l.c., 4D82
detmn. of creatine in, by cation-exchange chromatography, 9D160
detmn. of digoxin in, by enzyme immunoassay, 12D64
detmn. of IMP in, in femtomole range, enzymic, 5D220
detmn. of lipid peroxidation products in, sucrose interference in thiobarbituric acid method, 10D134
detmn. of selenium in, by isotope-dilution g.c. - m.s., 5D34
detmn. of sodium in, electrode for, 2D14
detmn. of sulfaquinoxaline in, by h.p.l.c., 2D103
detmn. of sulphonamides in, by t.l.c., 2D101, 2D102
detmn. of uric acid in chicken, by h.p.l.c., 10D242
sepn. of proteins in human skeletal, by gel electrophoresis, 10D195
- Mushrooms**, detmn. of cortinarin A and cortinarin C in, by h.p.l.c., 4D237
detmn. of organic acids in, by ion chromatography, 6F65
detmn. of psilocybin in hallucinogenic, by h.p.l.c., 12E65
detmn. of selenium in, by a.a.s., 5F40
detmn. of toxins of *Cortinaris*, by h.p.l.c., 9D191
identn. of flavour compounds in concentrates of, by g.c. - m.s., 6F64
identn. of psilocin and psilocybin in, by h.p.l.c., 5E13
- Mussels**, detmn. of dichloromethyl methyl sulphone in, by g.c. - m.s. or m.s., 9D103
detmn. of organic sulphur compounds in, by g.c. - m.s., 3H70
detmn. of PAH in, by h.p.l.c., 11H68
- Mustard oil**, detmn. of pesticides in, by t.l.c., 6F16
by t.l.c. or g.l.c., 9F11
- Mustard seed**, assay of thioglucosidase in, coupled enzymic, 7D252
- Mustard-seed oil**, detmn. of allyl isothiocyanate in, by colorimetry, 2F45
detmn. of PAH in, by t.l.c., 10F71
detmn. of tritoly phosphate in, colorimetric, 10F70
- Musts**, analysis of, by h.p.l.c., review, 3F30
detmn. of amines in, derivatization - fluorimetric, 8F60
detmn. of amino-acids in, by h.p.l.c. of dansyl derivatives, 10F64
detmn. of polyphenols in, by spectrophotometry, 7F88
- Mutagens**, detection of, by microbiological assay with electrochemical detection, review, 11J01
detmn. of, microbial sensors in, review, 5D4
- Mycophenolic acid**, detmn. of, in mouldy food, by t.l.c., 5F6
- Mycotoxins**, detection of, in cheese, by h.p.l.c., 10F44
in feeding-stuffs, by g.l.c., 1G8
of *Fusarium*, in grains, by quadrupole m.s. - m.s., 7G3
detmn. of, in air, by h.p.l.c. - t.l.c., 8H35
in cereals, by t.l.c. and spectrophotometry, 2G5
in environmental materials, 5H98B
in food, by t.l.c., review, 7F19
by t.l.c. and h.p.l.c., review, 9F10
review, 8F1
in maize, by g.c. - m.s. with selected-ion monitoring, 9G2
in mouldy food, by t.l.c., 5F6
in wheat, by g.l.c., 3G1
of *Fusarium*, in biological materials, water and soil, by g.c. - m.s., 7D103
of *Alternaria*, in fruit and vegetables, by h.p.l.c., 7F18
- Myelin basic protein**, detmn. of, in cerebrospinal fluid, 6D235
- Myeloperoxidase**, assay of, in human polymorphonuclear leucocytes, by spectrophotometry, 4D336
- Myoglobin**, detmn. of, in serum, by chemiluminescent immunosorbent assay, 10D200
by r.i.a., 9D206
sepn. of, from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- Myosin**, sepn. of, in human skeletal muscle, by gel electrophoresis, 10D195
- Myrtle**, identn. of volatile components of berries of, by g.l.c. - m.s., 2F34

N

- Nafazatrom**, detmn. of, in plasma, by h.p.l.c., 8D72
- Naftimidone**, detmn. of, in plasma and saliva, by h.p.l.c., 2D68
- Naloxone**, detmn. of, in blood, by h.p.l.c., 7D61
in serum, by r.i.a., 6D76
- Nandrolone**, detection of metabolites of, in body fluids, by computerized g.l.c., 6D70
detmn. of, in serum or plasma, by r.i.a., 9D56
- Naphazoline**, detmn. of, in ophthalmic soln., by h.p.l.c., 6E41
- Naphazoline nitrate**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- Naphtha**, analysis of, by carbon-13 n.m.r., 4C53
by g.c., 6C38
by g.l.c., 10C55
- Naphthalene**, analysis of, by g.c., 2C44, 2C45
by g.l.c., 2C53
detection of, by resonance Raman spectrometry, 12C35
detmn. of, by h.p.l.c., 6C26
in bran and wheat germ, by g.c., 10F16
in menadione, by differential scanning calorimetry, 1E19
in phthalic anhydride, by g.c., 5C47
- , **alkyl-**, sepn. of, by h.p.l.c., 3C38
- , **dimethyl-**, detmn. of, in crude petroleum, by t.l.c. - g.c., 3C44
- , **1,5-dinitro-**, detmn. of, by h.p.l.c., 6C26
- , **1,8-dinitro-**, detmn. of, by h.p.l.c., 6C26
- , **1-methyl-**, detmn. of, in menadione, by differential scanning calorimetry, 1E19
- , **2-methyl-**, detmn. of, in menadione, by differential scanning calorimetry, 1E19
identn. of oxidation products of, by g.c. - m.s., 5E27
- , **1-nitro-**, detmn. of, by h.p.l.c., 6C26
- , **2-nitro-**, detmn. of, by h.p.l.c., 6C26
- Naphthalene derivatives**, sepn. of, by liquid chromatography, cyclodextrin phases for, 5C3
- , **alkyl**, sepn. of, by g.l.c. retention index prediction in, 10C44
- , **bromo-**, detmn. of, in fire-retardant materials, by g.c. - m.s., 11C80
- , **chloro-**, detmn. of, by g.c. - m.s., 5C41
in water and urine, by room-temp. phosphorescence, 7H68
in waters and biological materials, 11H69
- , **dihydroxy-**, sepn. of, by h.p.l.c., 8C41
- Naphthalene-1,7-diol**, identn. of, in mixtures with other aromatic hydroxy-compounds, by room-temperature phosphorescence and fluorescence, 12C26
- Naphthalene-2,7-diol**, 1-(5-bromo-2-pyridylazo)-, as reagent for metals, 8A3
- Naphthalene-2,7-diol derivatives**, **azo-**, as metallochromic indicators, 3A7
- Naphthalenedisulphonic acid derivatives**, **hydroxy-**, sepn. of, from other aromatic sulphonates, by electrophoresis, 4C77
- Naphthalene-1-sulphonamide**, **5-dimethylamino-**, sepn. of, from dansyl derivatives of amino-acids, by h.p.l.c., 11D170
- , **NN-dimethyl-5-dimethylamino-**, sepn. of, from dansyl derivatives of amino-acids, by h.p.l.c., 11D170
- Naphthalene-1-sulphonic acid**, **4-amino-**, detmn. of, by diazotization - differential pulse polarography, 11B88
- , **5-dimethylamino-**, sepn. of, from dansyl derivatives of amino-acids, by h.p.l.c., 11D170
- Naphthalene-2-sulphonic acid**, **6-hydroxy-**, **sodium salt**, detmn. of, in synthetic food colours, by ion-pair liquid chromatography, 7F25
- Naphthalenesulphonic acid derivatives**, sepn. of, by reversed-phase ion chromatography, 10C70
- , **amino-**, detmn. of, by spectrophotometric titration, 11C27
- , **aminohydroxy-**, detmn. of, by spectrophotometric titration, 11C27
- , **hydroxy-**, detmn. of, by spectrophotometric titration, 11C27
- Naphthalene-2-thiol**, detmn. of, 2,2-diphenyl-1-picrylhydrazyl in spectrophotometric, 3C3
- Naphthaquinone**, detmn. of, in phthalic anhydride, colorimetric, 9C28
- 1,4-Naphthaquinone**, detmn. of, 3-phenylthiazolidine-2,4-dione in spectrophotometric, 10C38
- Naphthionic acid**, detmn. of, in synthetic food colours, by ion-pair liquid chromatography, 7F25
- Naphthoic acid**, detmn. of, in vegetables, by ion chromatography, 6F65
- 2-Naphthoic acid**, **4,4'-methylenbis(3-hydroxy-**, identn. of, by m.s., 10E43
- , **5,5'-methylenbis(6-hydroxy-**, identn. of, by m.s., 10E43
- 1-Naphthol**, detmn. of, in External D&C Yellow No. 7, by h.p.l.c., 7F26
in hair dyes, by h.p.l.c., 7C85
identn. of, in mixtures with other aromatic hydroxy-compounds, by room-temperature phosphorescence and fluorescence, 12C26
- 2-Naphthol**, identn. of, in mixtures with other aromatic hydroxy-compounds, by room-temperature phosphorescence and fluorescence, 12C26
- 1-Naphthol**, **2,4-dinitro-**, detmn. of, in External D&C Yellow No. 7, by h.p.l.c., 7F26
- Naphthols**, analysis and titrimetry of, for certification, 7C4
identn. of, in mixtures with other aromatic hydroxy-compounds, by room-temperature phosphorescence and fluorescence, 12C26
- Naphtho[2,1-e]-1,2,4-trioxane**, **4a,10b-dihydro-**, sepn. of derivatives of, by h.p.l.c., 9C39
- 1-Naphthylamine**, **N-phenyl-**, detmn. of, in soln., by laser photo-ionization, 5C53
- Napropamide**, detmn. of, by capillary-column g.c., 7G29

- Naproxen**, detmn. of, by coulometric titration, 8E54
in plasma, by h.p.l.c., 5D66
peak shape in, 7D65
sepn. of isomers of, by h.p.l.c., 8E67
- Naringin**, detmn. of, in grapefruit, by r.i.a., 6F55
- Naringinase**, assay of, rapid method for, 6D310
- Nasal drops**, detmn. of oxymetazoline hydrochloride in, spectrophotometric, 9E44
- Natamycin**, detmn. of, on surface of cheese, by h.p.l.c., 5F32
- Natural products**, analysis of, by h.p.l.c. - m.s., 7J37
negative chemical-ionization m.s. in structural, review, 7D3
- Nectar**, detmn. of organophosphorus pesticides in, by g.l.c., 7D107
- Neem**, detmn. of azadirachtin in kernels of, by h.p.l.c., 10D151
- Neodymium**, detmn. of, 2-acetyldimide in spectrophotometric, 12B69
by h.p.l.c. with voltammetric detection, 6B82
by reversed-phase paper chromatography, 2B35
by spectrophotometry, 3B50
by X-ray spectroscopy, 11B44
in aluminium yttrium garnet, by XRF, 11B168
in aluminomagnesium spinel, by XRF, 4B195
in bronzes used in making superconducting alloys, by XRF, 7B29
in mixtures, by n.m.r., 3B55
in monazite sand, by spectrophotometry, 11B46
in ores, by polarography of catalytic wave, 10B63
in soil, by graphite-furnace a.a.s., 6G10
in uraniferous rock, by instrumental n.a.a., 5B96
by n.a.a., 10B61
sepn. of, by cation exchange on silica, 12B2
resin in, 2B38
- Neodymium perchlorate**, explosion of acetonitrile adduct of, 7A23
- Neomycin**, detmn. of, by potentiometry with carbon dioxide sensor and *Escherichia coli*, 5E22
in dosage forms, by spectrophotometry of dihydrolutidine derivatives, 8E36
in pharmaceutical preparations, by h.p.l.c., 9E23
- Neon**, depth profiling of, in solids, by proton activation, 12B23
detmn. of, in helium, by laser-excited fluorescence, 6B29
in mixtures with helium, by sound resonance, 10J5
in nickel alloys, by m.s., 1B5
- Neopterin**, detmn. of, in urine, by h.p.l.c., 9D248
by polarization fluoro-immunoassay, 12D223
- Neoquassin**, sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
- Neostigmine**, detmn. of, in pharmaceutical preparations, sodium tetraphenylborate in potentiometric, 3E20
- Neostigmine methylsulphate**, detmn. of, in eye-drops, iodimetric, 3E34
in pharmaceutical preparations, by spectrophotometry, 6E43
iodimetric, 6E44
- Nephelometry**, in detmn. of mud solids in sugar-cane juice, instrument for, 4A1B
- Neptunium**, detmn. of, in fuel reprocessing soln., by XRF, 11B59
in mixtures with plutonium, extraction - spectrophotometric, 11B62
in spent nuclear fuel, by coulometry, 11B61
without sepn. from uranium, by polarography, 11B60
detmn. of oxidation states of, spectrophotometric, 9B86
- Nerve gases**, detection of, in air and water, 4H6
- Nervous tissue**, sepn. of androstenedione from, by extraction - micro-column chromatography, 5D151
- Netilmicin**, detmn. of, in serum, by automated h.p.l.c., 9D50
by h.p.l.c., 9D51
immunoassay kits for, 11D55
- Neuraminic acid, N-acetyl-**, detmn. of, by spectrophotometry, 3D210
in body fluids, enzymic - fluorimetric, 11D210
in plasma, by g.c. - m.s., 3D212
in tissues and serum, by spectrophotometry and fluorimetry, 3D209
- Neuraminidase**, assay of, in leucocytes, fluorimetric, 9D273
in plasma, by fluorimetry, 6D307
- Neuropeptides**, detection of, in brain, by h.p.l.c. or micro-electrodes, review, 5D172
- Neurospora crassa**, assay of NAD⁺ nucleosidase in conidia of, by h.p.l.c., 1D218
- Neurotensins**, sepn. of, by h.p.l.c. on "end-capped" octylsilica, 7D180
- Neutrons**, measurement of, dosimeter for, 5J155
- Nialamide**, detmn. of, in tablets, polarographic, 11E29
- Nicarbazine**, detmn. of, in chicken and eggs, by h.p.l.c., 11F17
- Nicardipine**, detmn. of, by potentiometry, electrode for, 9J138
- Nicergoline**, identn. of impurity in commercial, by h.p.l.c., 8E14
- Nickel**, detmn. of, acenaphthenequinone dioxime in gravimetric, 5B245
2-acetylpyridine benzoylhydrazone in a.a.s., 10B10
after pre-concentration on Norit A as di-(2-pyridyl) ketone
2-pyridylhydrazone complex, 5B223
amperometric titrimetric, 10B13
as complexes with organic compounds, by optoacoustic spectrometry, 4B18
by a.a.s., 12B19
reagent for, 4B15
by a.a.s. with concentric-tube atomizer, 9B11
by complexometry with 1-(2-pyridylazo)-2-naphthol as indicator, effect of non-ionic surfactants on, 5B16
by conductometric titration with 3,5-xylidine-NN-diacetate, 5B13
- Nickel**, detmn. of, -continued
by g.c. as chelates with bis(trifluoroethyl)- and diisobutyl-dithiocarbamates, 1B13
by g.c. as dialkylidithiocarbamate chelates, 1B14
by g.c. - m.s. with isotope dilution, as acetylacetone chelates, 1B11
by gravimetry with quinolin-8-amine, 4B170
by h.p.l.c., 3B11
by h.p.l.c. as chelates, 6B47
by h.p.l.c. of 4-(2-pyridylazo)resorcinol chelate, 10B135
by ICP a.e.s., 9J102
by polarographic stripping analysis, 10B160
by polarography, 5B242
by spectrophotometry, 3-bromo-2-hydroxy-5-methylacetophenone hydrazone in, 4B45
dithio-oxamide - heterocyclic base complexes in, 4B177
4'-ethoxy-2'-hydroxyacetophenone oxime in, 4B175
by spectrophotometry with di-2-pyridyl ketone benzothiazol-2-ylhydrazone, 4B176
by spectrophotometry with pyridine-2,6-dicarboxyhydrazonic acid, 5B243
by spectrophotometry with SNAZOXS and oxalate, 5B246
by voltammetry, as complex with alkylxanthate and nitrogen base, 5B24
effect of surfactants on, 7B133
by voltammetry of alkylxanthate complex, 9B141
by XRF, calculation of relative intensities in, computer program for, 5A34
catalytic-kinetic spectrophotometric, 12C22
in situ complex formation in spectrophotometric, 3B31
cyclohexane-1,3-dione bishiosemicarbazone in spectrophotometric, 12B154
cyclohexane-1,2,3-trione trioxime complex in spectrophotometric and in amperometric, 1B136
cyclohexylideneammonium 2-(cyclohexylideneamino)cyclohex-1-ene-1-carbodithioate in spectrophotometric, 10B159
di-2-pyridyl ketone 2-quinolylhydrazone in spectrophotometric, 10B138
4'-hydroxyazobenzene-2,3'-dicarboxylic acid as indicator in complexometric, 10B158
in air, by PIXE, 10H3
in alloys, spectrophotometric, 12B152
in alloys and hydrogenated oils, reagent for spectrophotometric, 2B78
in alloys with lanthanum, by complexometric titration, 5B99
in aluminium, by ICP a.e.s., 6B69
in aluminium and its alloys, by flameless a.a.s., 9B58
in aluminium-based and copper-based alloys, by γ -activation spectrometry, 4B47
in aluminomagnesium spinel, by XRF, 4B195
in beef and bovine organs, by voltammetry, 12D37
in binary mixtures, by spectrophotometry, 5B214
in biological and environmental materials, by voltammetry, 12D24
in biological fluids, by a.a.s., review, 6J130
in biological materials, by extraction - h.p.l.c., 12D29
in biological materials and sea-water, by n.a.a., 3D28
in biological tissues, by a.e.s., optimization of volatilization in, 5D37
in bone, by ICP a.e.s., 2D10
in bronzes and steels, by spectrophotometry, 5B244
in crude oil, by a.a.s., 8C52
in cupronickel alloys, by Auger electron spectroscopy, 2B18
indicator system for titrimetric, 10B12
in dust, instantaneous direct-reading instruments for, 9H8
in electrochemical coatings, by voltammetry, 9B154
in environmental materials, methods and computer program for, 12H4
in erythrocytes and plasma of pregnant women, by PIXE, 12D17
in films, in presence of cobalt, by ion-exchange - spectrophotometry, 4B174
in fuel oil, by a.a.s., 7C60
in gas oil, by a.a.s., 8C59
in hair, skin and nails by electrothermal a.a.s., 7D31
in hydrogenated fats, by h.p.l.c., 11F34
in industrial wastes, by polarography, 5B12
in iron and steel, photometric, 11B140
in iron - manganese nodules, by a.f.s., 4B19
in iron ores, by XRF, 6B152
in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
in lithium fluoride, by extraction - spectrophotometry, 11B21
in magnesium salts and zinc, by differential pulse polarography, 1B33
in maize oil, by a.a.s., sample preparation for, 2F42
in milk powder and biological materials, ashing method for voltammetric, 7F61
in minerals, by laser micro-spectrography, standards for, 5B229
in mineral waters, by extraction - cation-exchange chromatography, 4H70
in mixtures, by spectrophotometry, 6B20
in motor oil, by a.a.s., 4C58
in natural water, 2-benzoyl-4-(2-nitrophenyl)acetohydrazide in photometric, 12H74

Nickel, detmn. of.—*continued*

- electrochemical pre-concentration in, 9H65
 in nickel ores, by radiative neutron capture, 12B156
 in ores and alloys, extraction - spectrophotometric, 6B166
 in organic compounds, combustion - titrimetric, 9C11
 in phosphate rock reference material, 5A16
 in plants, by a.a.s., 10D48
 by a.a.s. and emission spectrography, 5D24
 in platinum, by spectrography, after electrolytic sepn., 2B83
 in presence of carbon and iridium, chemical - absorptometric, 10B14
 in presence of cobalt, by amperometry, 5B17
 in presence of cobalt and iron, by spectrophotometry, 5B247
 in presence of uranium, by XRF, 8B13
 in river water, by h.p.l.c., 7H32
 in sea- and waste water, by solvent extraction - XRF, 11B13
 in sea-water, by extraction - a.a.s. and/or anodic-stripping voltammetry, 5H43
 in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
 in silicate-rock reference materials, by a.a.s., 9B92
 in silicate rocks, by a.a.s., 4B108
 in silicates, by energy-dispersive X-ray spectrometry, 11B74
 in silicon, by spectrography, 4B103
 in soil and sewage-sludge-treated soil, by a.a.s., 5G9
 in solid wastes, polarographic, 10H95
 in steel, aluminium alloy and soil, by spectrophotometry, 1B132
 by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
 by XRF, correction for interference in, 12B149
 in tears, by a.a.s., 2D15
 in urban dust, by a.a.s., optimized extraction procedure for, 4H15
 in urine, by XRF after pre-concentration on chelating filter, 4D59
 in waste water, by XRF, 7H73
 in water, by n.a.a., 6H47
 in estimation of pollution potential of oil shale, 1C25
 in welding fumes, spectrophotometric, 9B126
 in zinc and cadmium sulphides, by extraction - spectrophotometry, 9B46
 extraction - spectrographic, 10B45
 in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydrozepine-1-carbodithioate, 7B44
 in zinc sulphate electroplating soln., by h.p.l.c., 4B67
 2-mercaptop-3-(4-methoxyphenyl)propenoic acid in spectrophotometric, 12B151
 2-methyl-4-(2-thiazolylazo)resorcinol as indicator in titrimetric, 10B21
 oxime derivative in isotope-dilution, 11B149
 2-(α -phenacylbenzylideneamino)ethanesulphonic acid in spectrophotometric, 10B34
 1,10-phenanthroline and cadion in spectrophotometric, 5B15
 reagents for spectrophotometric, 8A5
 sodium dibutyldiselenocarbamate in spectrophotometric, 12B16
 sodium 1,2-naphthaquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
 sulphonated azo-dyes in spectrophotometric, 2B6
 thiocamphor oxime in spectrophotometric, 12B153
 2,4,6-trihydroxydithiobenzoic acid in spectrophotometric, 5B241, 10B134
 detmn. of bismuth, cadmium, lead and zinc in, by differential pulse anodic-stripping voltammetry, 9B157
 detmn. of chelates of, by t.l.c. with photoacoustic detection, 4B168
 detmn. of cobalt in, by spectrophotometry, 6B167
 detmn. of copper and vanadium in samples from production of, by spectrophotometry, 6B168
 detmn. of copper in, spectrophotometric, 3B33
 detmn. of hydrogen, oxygen and nitrogen in, hot hollow cathode device in spectral-isotopic, 12B13
 detmn. of osmium, ruthenium and iridium in, by chemiluminescence, 4B179
 detmn. of selenium in materials based on, by a.a.s., 5B248
 detmn. of trace, by a.a.s., 3B103
 in liquid samples, pre-concentration method for, 9B8
 in water, by a.a.s., 6B25
 detmn. of yttrium in alloys of, spectrophotometric, 12B155
 extraction of, as ternary perchlorate - benzil mono-(2-pyridylhydraz-one) complex, 7B28
 from aq. soln., with cyclohexanecarboxylic acid, 5B225
 from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
 from water, by adsorption on iminodiacetic acid - cellulose, 2H31
 tall oil and pyridine in, 12B25
 unsaturated macrocyclic tetra-amines and carboxylic acids in, 4B163
 with 2-hydroxy-5-(1,1,3,3-tetramethylbutyl)benzaldoxime, 2B16
 g.l.c. of, as diethyldithiocarbamate, 10B161
 identn. of, in alloys, electrochemical, 10B17
 in bentonite powder, by derivative spectrophotometry, 1H2
 measurement of free acidity in soln. of, by standard addition method, 12B28
 pre-concentration of, by sorption on ferric oxide, 5B19
 purpurin as reagent for, 5B25
 sepn. of, by h.p.l.c., as xanthate complexes, 4B24

Nickel, sepn. of.—*continued*

- from copper, by ion exchange on stannic arsenoantimonate, 9B139
 from other metals, by liquid chromatography with hydroxamic acids as stationary phases, 5J26
 polystyrene-based chelating resin for, 3B19
 titration of, with EDTA, indicator for, 2B79
Nickel-63, detection of, by autoradiography, X-ray films for, 2J102
Nickel alloys, analysis of, by Auger-electron spectroscopy, matrix-effect correction in, 7J96
 by Auger spectroscopy, surface preparation for, 5J125
 analysis of lanthanum-containing, complexometric titrimetric, 5B99
 analysis of surface of, by low-wattage glow-discharge emission spectrometry, 12B44
 detmn. of argon, helium, neon and hydrogen in, by m.s., 1B5
 detmn. of arsenic and phosphorus in copper-containing, by electrothermal a.a.s., 2B59
 detmn. of bismuth, cadmium, lead and zinc in, by differential pulse anodic-stripping voltammetry, 9B157
 detmn. of boron in, by a.a.s., 12B137
 detmn. of cobalt in, by polarography, 4B166
 colorimetric, 9B153
 detmn. of copper and nickel in, by Auger electron spectroscopy, 2B18
 detmn. of gold in gold-containing, coulometric, 3B39
 detmn. of lead in, by polarography, 4B114
 detmn. of molybdenum in, by polarography, reagent for, 6B132
 detmn. of nickel and copper in, extraction - spectrophotometric, 6B166
 detmn. of phosphorus in, by spectrophotometry, 4B165
 detmn. of trace selenium in, by electrothermal a.a.s. with graphite platform, 9B155, 9B156
 surface analysis of copper-containing, by XRF, 2J68
 surface analysis of molybdenum-doped Raney, by X-ray photoelectron and Auger electron spectroscopy, 12B182
Nickel diethyldithiocarbamate, sepn. of, from zinc analogue, by g.l.c., 10B161
Nickel mattes, detmn. of silver in copper-containing, by extraction - a.a.s., 1B137
Nickel ores, analysis of, by radiative neutron capture, 12B156
 detmn. of osmium, ruthenium and iridium in, by chemiluminescence, 4B179
Nickel salts, detmn. of cobalt in, 1-nitroso-2-naphthol in differential pulse polarographic, 2B74
Nickel sulphate, detmn. of lead in, spectrophotometric, 9B95
Nickel sulphide, detmn. of osmium, ruthenium and iridium in, by chemiluminescence, 4B179
Nickel tetracarbonyl, detmn. of, in tobacco smoke, by FT i.r. spectrometry, 2D48
Niclosamide, identn. of, X-ray powder diffraction data for, 8E84
 stability testing of, in pharmaceutical preparations, by t.l.c. and d.t.a., 3E41
Nicotinamide, detmn. of, by bromination and spectrophotometry, 5E6
 in beef and fish, by h.p.l.c., 3F15
 in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31
 in multivitamin preparations, by h.p.l.c., 9E30
 —, *N*-methyl-, detmn. of, in urine, by h.p.l.c., 11D226
Nicotinamide-adenine dinucleotide, detmn. of, in biological fluids, by cathodic-stripping voltammetry, 9D236
 in blood, liver and cells, by spectrophotometry and enzymic reaction, 4D137
 —, *oxidized*, detection of, microbial electrodes in amperometric and potentiometric, review, 1J101
 —, *reduced*, detmn. of, by continuous-flow analysis with immobilized bioluminescent enzymes, 10D236
 by photon counting, with immobilized luciferase, 11D217
 in biological materials, by voltammetry, 9D235
 on immobilized bioluminescent enzymes, by photographic detection of light emission, 9D12
 sepn. of, by h.p.l.c., 3D231
Nicotinamide-adenine dinucleotide phosphate, sepn. of, by anion-exchange chromatography, 3D228
 —, *reduced*, detmn. of, electrode for, 2D219
Nicotine, detmn. of, by indirect polarography, 2E6
 in biological materials and soln., 7D38
 in extracts of tobacco leaf, by h.p.l.c., 12D159
 detmn. of *N*-methyl derivatives of, in urine, by h.p.l.c., 11D45
 sepn. of enantiomers of carbon-14-labelled, by h.p.l.c., 8D155
Nicotinic acid, detection of, by microbiological assay with electrochemical detection, review, 1J101
 detmn. of, in beef and fish, by h.p.l.c., 3F15
 in food, h.p.l.c. and microbiological, 11F3
 in multivitamin pills, by second-derivative u.v. spectrophotometry, 9E29
Nicotinic acid hydrazide, detmn. of, metol and cerium^{IV} in spectrophotometric, 10C41
Nicotinic acid isopropyl ester, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E4
Nicotinoyl chloride, assay of, by h.p.l.c., 6E62
Nicotinoylhydrazine, detmn. of, by spectrophotometry, after complexation with chloranil, 4E56
Nifedipine, detmn. of, 4E51
 in plasma, by g.l.c., 6D107

Nifedipine, detmn. of,—*continued*

- in serum, by g.c., 3D66
- in serum and plasma, by h.p.l.c., 1D59
- Nifluride**, detmn. of, and its cyclized breakdown product, in water, by h.p.l.c. after automated extraction, 8H92
- Nifurpirinol**, detmn. of, in fish, by h.p.l.c., 1F12
- Nifurtoinol**, detmn. of, by d.c. and oscillo-polarography, 8E77
- Nikethamide**, detmn. of, in pharmaceutical preparations, spectrophotometric, 12E42
- Niludipine**, detmn. of, 4E51
- Nimodipine**, detmn. of, in plasma and cerebrospinal fluid, by g.c. and h.p.l.c., 8D89
- Nimonic alloys**, detmn. of boron in, by ICP a.e.s., 6B160
- Niobium**, analysis of, by n.a.a. with ion-exchange sepn., 1B95
 - review, 6B119
 - detmn. of, by spectrophotometry with polyhydric phenols, 5B158
 - cinnamohydroxamic acids in spectrophotometric, 2B4
 - in bronzes used in making superconducting alloys, by XRF, 7B29
 - in high-purity inorganic compounds, kinetic, 6B18
 - in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
 - in pig iron, by ICP a.e.s., 12B146
 - in presence of fluoride, by spectrophotometry, 1B91
 - in rocks, by spectroscopy, 1B8
 - in rocks and ores, morin in fluorimetric, 3B71
 - in silicates, by energy-dispersive X-ray spectrometry, 11B74
 - in steel, by potentiometry, 1B93
 - extraction - photometric, 6B158
 - in tantalum, titanium and tantalum^v oxide, fluorimetric, 10B111
 - in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
 - ion-exchange membranes in photometric, 1B92
 - reagents in spectrophotometric, 12B114
 - spectrophotometric, 12B115
 - ternary complex for spectrophotometric, 11B99
- detmn. of silicon and arsenic in, by chlorination - m.s., 8B64
- detmn. of technetium-96 produced by α -irradiation of, 11B100
- extraction of, from fluoride - sulphate soln., 5B183
- Niobium-95**, sepn. of, from fission products, by sorption on tantalum phosphate, 1B61
- Niobium alloys**, analysis of, by X-ray spectrometry, 11B11
- Niobium chloride** (NbCl_5), detmn. of aluminium in, by spectrophotometry, 1B94
- detmn. of vanadium in, by spectrophotometry, 8B88
- Niobium hydroxide**, detmn. of tantalum pentoxide in, by XRF, 11B8
- Niobium oxide** (Nb_2O_5), detmn. of vanadium in, by spectrophotometry, 8B88
- Niobium pentoxide**, detmn. of, in tantalite concentrate, by XRF, 11B8
- Niridazole**, identn. of, X-ray powder diffraction data for, 8E84
- Nitrapyrin**, detmn. of, in water and air, by g.l.c. or t.l.c., 7H6
- Nitrate**, detection of, by h.p.l.c., ion-selective electrodes in, 4J33
 - in ion chromatography, 7J47
 - microbial electrodes in amperometric and potentiometric, review, 1J101
- detmn. of, by electrocatalytic reduction, 11B85
 - by h.p.l.c. after reaction with 2,6-xenol, 7F9
 - by ion chromatography, 9J38
 - calibration in, 8J39
 - by ion chromatography with EDTA as eluent, 12B24
 - by non-suppressed ion chromatography, 8B15
 - electrode for, 12J154
 - in air, effect of alkalinity of filters on, 11J8
 - u.v. - visible spectrometer for, 12H22
 - in baby food, by spectrophotometry, 12F2
 - in biological and environmental materials, by spectrophotometry, 6H68
 - in biological materials, by g.c. with f.i.d. or thermal energy analyser, 8D29
 - in carrots and ham, by ion chromatography, 5F2
 - in drinking water, by capillary free-zone electrophoresis, 3H37
 - in environmental materials, by single-column ion chromatography, 2H49
 - in food, 6F9
 - by spectrophotometry, 5F3
 - in ground water, by h.p.l.c., 1H36
 - in lake water, by ion-exchange chromatography, 6H67
 - in leaves, flow-injection, 7G1
 - in meat, by reduction with cadmium, 7F41
 - in meat and fish products, enzymic - spectrophotometric, 8F24
 - in meat products, by h.p.l.c., 10F31
 - in natural waters, by ion chromatography, 3H30
 - spectrophotometric, 3H47
 - in nuclear waste soln., polarographic, 9H83
 - in plasma, by ion-exchange h.p.l.c., 10D40
 - in potable and natural water, by ion chromatography, 3H29
 - in potable water, by spectrophotometry, 1H34
 - in precipitation water, by ion chromatography, 12H42
 - in sea-water, by flow-injection analysis, 6H64
 - in serum, by ion chromatography, 2D37
 - in small samples of water, by cadmium reduction method, 8H66

Nitrate, detmn. of,—*continued*

- in snow, by ion chromatography, 5H71
- in snow and ice, by ion chromatography, 8H43
- in soil, effect of sample-to-extractant ratio on, 11G15
- manual colorimetric, 5G14
- in soln., nephelometric, 11B87
- in soln. for production of cellulose fibres, by ion-selective electrode, 10C72
- in table salt, by spectrophotometry, 7F77
- in water, by flow-injection analysis, apparatus for, 6H63
 - by h.p.l.c., 12H64
 - by isotope-dilution m.s., 1H33, 12H63
 - by micro-bore h.p.l.c., 1H31
 - by potentiometry, 2H46
 - by reduction to ammonia and enzymic cycling, 8H67
 - by segmented-flow analysis, 7H43
 - by spectrophotometry, 1H32, 6B110
 - effect of storage time on, 11H76
 - waste water and soil, by spectrophotometry, 7H46
- in water and animal feeds, by differential pulse polarography, 11H42
- in water and effluents, by ion chromatography, automated, 12H43
- in water and soil, spectrophotometric, 7H45
- in water or plant material, by g.l.c., 2,4-xenol in, 5H65
- in wort, process water or beer, 6F74
- ion-selective electrode for, 6J178, 9J132
- membrane electrodes for, 11J130
- phenol in spectrophotometric, 1B84
- identn. of, in metal compounds, by a.a.s., 5B20
- sepn. of, from other anions, by ion chromatography, optimization of non-suppressed, 8B16
- prediction of retention in non-suppressed, 8B17
- Nitrates**, detmn. of, in fertilizers and waste water, ion-selective electrode in, 1G6
- Nitrazepam**, detmn. of, in aprotic media, 4E45
 - in biological fluids, by r.i.a., antiserum for, 10D91
 - in commercial formulations, by spectrophotometry, 1E21
 - in pharmaceutical preparations, by spectrophotometry with picric acid, 4E43
 - in plasma, by h.p.l.c., 4D103
- identn. of acid-hydrolysis products of, by t.l.c., h.p.l.c., m.s. and n.m.r., 9E32
- Nitric acid**, detmn. of, in air, by absorption spectrophotometry with tunable diode laser, 2H14
 - by h.p.l.c., 7H15
 - by reduction to nitric oxide and chemiluminescence, 5H22
 - by tungsten^{VI} oxide technique, automated, 3H9
 - in uranyl nitrate soln., by measuring density and refractive index, 6B90
- detmn. of sulphuric acid in, by potentiometric titration, 5B191
- detmn. of trace elements in, by spark-source m.s. and a.e.s., 4A6
- Nitric acid propyl ester**, detmn. of, in air, by reduction to nitric oxide and chemiluminescence, 5H22
- Nitric oxide**, detmn. of, apparatus for chemiluminescent, 3B67
 - in air, 10H23
 - by absorption spectrophotometry with tunable diode laser, 2H14
 - by chemiluminescence, 12H20
 - by repetitive-scanning derivative spectrometry, 7H9
 - calibration of apparatus for, 8H16
 - personal samplers for, 2H15
 - in air and nitrogen gases, by computer-controlled second-derivative spectrometry, 10H25
 - in combustion exhausts, by chemiluminescence, correction factors for, 9H18
 - in dinitrogen tetroxide, by g.c., 10B96
 - in flue gases, by spectrophotometry, 2H12
 - in presence of air, reagent for, 4H25
 - monitoring of, in air, by laser, 3H11
- Nitrides**, detmn. of total unstable, in steel, 3B98
- Nitriles**, detmn. of, by g.c. with direct aq. injection, 10C2
- sepn. of long-chain fatty, by g.l.c., 11F41
- Nitrite**, detection of, in urine, test strips for, 4D19
- detmn. of, 4-aminonaphthalene-1-sulphonic acid in differential pulse polarographic, 11B88
 - as pentafluorobenzyl derivatives, by g.c., 6B24
 - by h.p.l.c. after reaction with 2,6-xenol, 7F9
 - by ion chromatography, 9J38
 - by ion chromatography with EDTA as eluent, 12B24
 - by ion chromatography with quenched-phosphorescence detection, 12B103
 - by reverse flow-injection analysis, 7B87
 - in animal feed, by spectrophotometry or ion-selective electrode, 5G24
 - in aq. soln., by h.p.l.c., 9B102
 - by spectrophotometry, 8B77
 - in baby food, by spectrophotometry, 12F2
 - in biological and environmental materials, by spectrophotometry, 6H68
 - in cured meat, by fluorimetry, 1B80
 - in food, 6F9
 - by spectrophotometry, 5F3

Nitrite, detmn. of,—continued

- spectrophotometric, 10F32
- in gastric juice, by chemiluminescence, 4D47
- in ground water, by h.p.l.c., 1H36
- in meat products, by h.p.l.c., 10F31
- in nuclear waste soln., polarographic, 9H83
- in plasma, by ion-exchange h.p.l.c., 10D40
- in precipitation water, by ion chromatography, 12H42
- in sea-water, by flow-injection analysis, 6H64
- by voltammetry with a graphite electrode, 4H63
- in soil, manual colorimetric, 5G14
- in soln., nephelometric, 11B87
- in soln. for production of cellulose fibres, by ion-selective electrode, 10C72
- in table salt, by spectrophotometry, 7F77
- in urine, with test strips, review, 1D2
- in waste water, by photometry, 6H95
- by spectrophotometry, 3H73
- in water, adsorption - colorimetric, 10H55
- by flow-injection analysis, apparatus for, 6H63
- by g.c. of benzotriazole derivatives, 7A5
- by h.p.l.c., 12H64
- by reduction to ammonia and enzymic cycling, 8H67
- by spectrophotometry, 6H65
- flow-injection - spectrophotometric, 7H41
- in water and effluents, by ion chromatography, automated, 12H43
- in water and soil, spectrophotometric, 7H45, 11H43
- in water and waste water, spectrophotometric, 10H56
- ion-selective electrode for, 12I160
- radio-release method for, 3B66
- titrimetric, 1B81
- , ¹⁵N], detmn. of, in blood, by g.c. - m.s., 11D25
- Nitrite reductase**, assay of, in rice roots, spectrophotometric, 3D251
- Nitro-compounds, aromatic**, detmn. of, by cyclic oscillography, 9C32
- by g.c. and g.c. - m.s., 2C79
- by h.p.l.c. with detection by supported-mercury-drop electrode, 5J41
- detmn. of PAH in, 11D260B
- sepn. of, by h.p.l.c., optimization of, 10J19
- , **polycyclic aromatic**, detmn. of, by g.l.c., thermionic detector for, 10J75
- in air-borne particulates, by g.l.c., 9H33
- in incinerator emissions, in-stack dilution technique for, 11H27
- in particulates, by h.p.l.c. - g.c. - thermal energy analyser, 12H39
- detmn. of ring systems of, in coal-derived liquids, spectrofluorimetric, 11C49
- identn. of, in coal liquors and shale oil process waters, by dual-column g.l.c., 9C66
- in coal tar, by g.c. - m.s., 3C50
- by g.c. - m.s. and g.c. - n.m.r., 8C64
- sepn. of, by g.c., 6C31
- Nitrofarin**, detmn. of, by g.l.c., 5E56
- Nitrofurantoin**, detmn. of, in biological fluids and pharmaceutical preparations, polarographic, 12E3
- in pharmaceutical preparations, spectrophotometric, 9E47
- Nitrofurazone**, detmn. of, in meats, by h.p.l.c., 2F14
- Nitrogen**, analysis of, by g.c., effect of atmospheric pressure on, 2J46
- depth profiling of, by proton-induced resonance reaction, 12B104
- detection of trace ammonia and sulphur dioxide in, with piezoelectric crystal, validity of Sauerbrey equation in, 11B89
- detmn. of, by activation with heavy ions, review, 12B10
- by Dumas' method, silane antifoam compounds in, 10B95
- by Kjeldahl digestion, indophenol blue reaction in, 1D26
- by m.s., automated analyser interfaced with isotope-ratio mass spectrometer for, 1B83
- by α -particle-induced γ -ray emission, 5B10
- by scattering of combination X-ray lines, 8B7
- hot hollow cathode device for spectral-isotopic, 12B13
- in biological materials, by combustion and g.c., 11D26
- by vaporization - plasma emission spectrometry, 6D36
- in brewing materials, by near-i.r. spectrometry, 6F73
- in brewing raw materials, by near-i.r. spectrometry, 7F84
- in carbon dioxide, by spectrography, 5B133
- in coal, char and coke, micro-analysers in, 5B278
- in diamond, by Rutherford back-scattering spectrometry, 7B74
- in dinitrogen tetroxide, by g.c., 10B96
- in feeding-stuffs, by Kjeldahl method with titanium white as catalyst, 1G7
- in fertilizers and waste water, ion-selective electrode in, 1G6
- in food, Kjeldahl, potassium sulphate as catalyst in, 12F6
- mineralization apparatus for Kjeldahl, 7F2
- in forage, precision and quality control of, 5G21
- in gases, by g.c., 5J6
- by g.s.c., 3D11
- in heat-resistant alloys, hot hollow cathode in, 10B93
- in malt and wort, without distillation, 12F32
- in metals, by laser m.s., 12B21
- by n.a.a., 12B105
- review, 4B26
- in micro-organisms, with ammonia-selective electrode, 2D35

Nitrogen, detmn. of,—continued

- in minerals, by ion-beam bombardment - annihilation γ -ray detection, 12J141
- in natural and industrial gases, by g.c., 8C50
- in nitrocellulose, 12C82
- in non-volatile petroleum fractions, review, 12C45
- in nuclear-reactor fuel, by n.a.a., 4B93
- in oil shale, 8C60
- in organic compounds, by chromatography, 2C3
- by differential thermal conductivity, apparatus for, 12C4
- by pyrolysis - g.c., 2C4
- by sulphurization - g.c., 2C5
- statistical evaluation of, 11C3
- in organic materials, automated, 8C4
- Kjeldahl, review, 4F4
- in plant material, solvent-extraction fractionation in, 4D48
- in plants, by spectrophotometry, 5D28
- in silicon-containing alloys, decomposition methods for, 6B109
- in smokeless ball propellents, automated, 8C99
- in soil, by Kjeldahl method, effect of pre-treatment with water on, 6G8
- in standard tetramethylammonium tetraphenylborate, 9A15
- in steel, 4B161
- in titanium and titanium - aluminium - vanadium alloys, certification in, 12B97
- in uranium compounds, by inert-gas fusion, 4B95
- in *N*-vinylpyrrolidinone and its copolymers, Kjeldahl, 9C84
- in water, by g.c., 10H42
- effect of storage time on, 11H76
- simultaneously with other elements in organic compounds, by pyrolysis - g.c., 12C3
- simultaneously with water in grain, automated, 11G4
- detmn. of adsorbed or entrapped, in dehydrated food, by head-space analysis, 6F1
- detmn. of dissolved, in water, 5H38
- detmn. of inorganic, in soil, manual colorimetric methods for, 5G14
- detmn. of isotopes of, in air, by cryogenic sepn. - m.s., 10H22
- detmn. of isotopic composition of, in biological materials, 2D36
- in soil, effect of sample-to-extractant ratio on, 11G15
- detmn. of rare stable isotopes of, charged-particle induced prompt γ -rays in, 11B9
- detmn. of total, in human body, by neutron-capture gamma-ray analysis, 10D41
- in petroleum products, by micro-coulometry, 9C45
- in sediments and plants, persulphate or Kjeldahl digestion in, 9H54
- in water, by AutoAnalyzer after persulphate oxidation, 10H54
- detmn. of total ammoniacal, in water, by gas-diffusion-cell flow-injection spectrophotometry, 5H59
- detmn. of trace, in high-purity gases, by g.s.c., detector for, 7J69
- detmn. of trace water in, by reaction g.c., 3B22
- detmn. of whole-body, *in vivo*, by n.a.a., 10D39
- Nitrogen-14**, measurement of ratio of nitrogen-15 and, by electrodeless-discharge emission spectrometry, 5B163
- Nitrogen-15**, detmn. of, by isotope dilution, errors in, 12B106
- by m.s., automated analyser interfaced with isotope-ratio mass spectrometer for, 1B83
- in labelled amino-acids, by glass-fibre paper chromatography and emission spectrometry, 6D214
- measurement of ratio of nitrogen-14 and, by electrodeless-discharge emission spectrometry, 5B163
- Nitrogen bases**, sepn. of, in petroleum and petroleum products, by column chromatography, 4C51
- Nitrogen chloride (NCl₃)**, detmn. of, in liquid chlorine, by spectrophotometry, potentiometry or titration, 8B105
- Nitrogen compounds**, identn. of organic, in water, 3H63
- sepn. of, in coal tar, 2C51
- sepn. of aromatic, from water, Chromosorb T as sorbent in, 12H81
- sepn. of classes of organic, in coal tar, by liquid chromatography, 8C63
- , **heterocyclic**, phosphorescence of, cyclodextrin-induced, 12C39
- Nitrogen dioxide**, detection of, in air, by spectrometry with micro-photodiode detector array, 4H23
- detmn. of, apparatus for chemiluminescent, 3B67
- in air, 10H23
- bacterial electrode for, 7J130
- by absorption spectrophotometry with tunable diode laser, 2H14
- by chemiluminescence, 12H20
- by g.l.c., 3H10
- by laser-absorption spectrometry, 9H20
- by reduction to nitric oxide and chemiluminescence, 5H22
- by repetitive-scanning derivative spectrometry, 7H9
- by spectrophotometry, 10H24
- by thermal-lens spectrophotometry, 5H21
- containing sulphur dioxide, by atmospheric-pressure-ionization m.s., 6H20
- diffusional sampler for, 1H13
- laser systems for, 12H12
- passive sampler for, 6H19
- personal samplers for, 2H15, 6H21
- radio-release method for, 3B66
- solid-state electrochemical sensor for, 5H27

- Nitrogen dioxide**, detmn. of, in air, —continued
u.v. - visible spectrometer for, 12H22
- Nitrogen oxide (N₂O₄)**, detmn. of impurities in, by g.c., 10B96
- Nitrogen oxides**, detmn. of, in air, by photometry, 4H26
by spectrophotometry, 3H13
calibration of apparatus for, 9H16
personal monitors for, review, 9H23
in flue gases, by spectrophotometry, 2H12
in sulphuric acid, effect of sulphur dioxide on, 6B125
detmn. of trace, in air, by g.c., review, 6H6
- Nitrosamines**, detmn. of, by h.p.l.c. with spectrophotometric detection, 5C32
fluorimetric, 8C21
in food, review, 8F1
in foods, by g.l.c. and h.p.l.c., 8F7
in marinated herring, by g.c., 5F24
in nitrite-treated animal feed, by g.l.c., 4G25
in urine, by g.c., 3D138
sepn. of, from extracts, perchloric acid - Celite columns in, 12C21
- N-Nitrosamines**, detmn. of, in foods, by g.l.c., 2F8
in rubber teats, by g.c. with thermal energy detection, 7C102
- Nitrosamines, dimethyl-**, detmn. of, in beer and ale, by g.l.c., 3F28
- N-Nitroso-compounds**, detmn. of, in gastric juice, by chemiluminescence, 2D121
- Nitrous oxide**, detmn. of, in air, by g.c. with ionization detectors, 9H21
in air of operating theatres, by g.c., 4H10
in dinitrogen tetroxide, by g.c., 10B96
in water, by g.c., 10H42
- Nitrovin**, detmn. of, in animal feeds, by h.p.l.c. - spectrophotometry, 6G22
- Nitroxide radical**, detmn. of, in acrylic melamine polymer, by e.s.r., 7C95
- Nivalenol, deoxy-**, detection of, in feeding-stuffs, by g.l.c., 1G8
detmn. of, in maize and wheat, by t.l.c., 10G3
in wheat, by g.c., 7G4
by g.l.c., 9G5
by t.l.c., 10G4
in wheat and flour, by h.p.l.c., 10F11
- Noble metals**, detmn. of, by ion-beam analysis, pre-concentration in, 12B157
by spark-source m.s., pre-concentration on aluminium powder in, 3B12
in natural and technological materials, by extraction - n.a.a., 12B158
extraction of, molten biphenyl as solvent in, 3B15
sepn. of, petroleum heteroatomic compounds as reagents in, 12B159
- Nocardia**, detmn. of 3,4-dimethoxybenzoic acid and its de-methylation products in cultures of, by ion-pair h.p.l.c., 10D128
- Nogarol, 7-R-O-methyl-**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 12E27
- Nonifensine**, detmn. of, by t.l.c., 2J39
in serum, by h.p.l.c. and g.l.c., 2D82
with its metabolites, in urine, by t.l.c., 2D83
- Nonactin**, detmn. of, by voltammetry, 6E29
- Noradrenaline**, detection of, by h.p.l.c., electrochemical detector for, 10J40
detmn. of, by anodic voltammetry, 12E45
by h.p.l.c. of dansyl derivatives, 2D7
in biological materials, by h.p.l.c. as dansyl derivatives, 4D208
in blood plasma and urine, by g.c. - m.s., 4D207
in brain, by h.p.l.c., 2D162
in human urine, by h.p.l.c. with post-column derivatization, 12D152
in plasma, by h.p.l.c., 2D166, 12D154
deconjugation for, 10D155
radio-enzymic, 2D165, 12D151
in rat brain, by h.p.l.c., 6D205, 7D160, 8D146
with electrochemical detection, 10D158
in serum, by h.p.l.c. with dual electrochemical detection, 2D163
in urine, by h.p.l.c., 2D164
fluorimetric, 8D151
in vas deferens, by h.p.l.c., 2D167
detmn. of glucuronide and sulphate conjugates of, in plasma, radio-enzymic, 12D155
extraction of, from urine, by adsorption on alumina, 5D168
sepn. of, by ion-pair liquid chromatography, 11D160
- , **3-O-methyl-**, detmn. of, in urine, by h.p.l.c., 5D74, 7D158
in vas deferens, by h.p.l.c., 2D167
- Noradrenaline O-sulphate**, detmn. of, by h.p.l.c. with dual-electrode electrochemical detection, 1D126
- Norapomorphine, N-propyl-**, fluorescence of, effect of micelles on, 9C6
- Norborn-2-ene, 5-ethylidene-**, detmn. of, in terpolymer with ethylene and propene, by i.r. spectrophotometry, 3C71
- Noreleagnine**, detmn. of, by h.p.l.c., 7D164
- Norephedrine**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 5E10
in urine, by g.c., 3D61
by g.l.c., 8D58
sepn. of enantiomers of, by h.p.l.c., 12E46
- , **4-hydroxy-**, detmn. of, in urine, by g.c., 3D61
- Norethisterone**, detmn. of, by t.l.c. - densitometry, 8E44
in mixtures, by second-derivative spectrophotometry, 12E60
in plasma, by r.i.a., 10D78
- Norethisterone**, detmn. of, —continued
in serum, by r.i.a., 9D139
detmn. of esters of, 7E15
- Norethisterone 4 β ,5 β -epoxide**, detmn. of, by t.l.c. - densitometry, 8E44
- Norfenfluramine**, detmn. of, in plasma, by g.l.c., 7D93
- Norfloracin**, detmn. of, in plasma and urine, by ion-pair reversed-phase chromatography, 9D52
- Normethandrone**, detmn. of, in mixtures, by second-derivative spectrophotometry, 12E60
- Nornicotine, N-nitroso-**, detmn. of, in tobacco, by g.c., 1D76
- Norophthalmic acid**, detmn. of, in lens, liver and brain of mammals, by h.p.l.c., 9D194
- Norsolorinic acid**, sepn. of, from *Aspergillus*, by h.p.l.c., 9D152
- Nortriptyline**, detmn. of, and its 10-hydroxy-metabolite, in plasma, by g.c., 7D68
in plasma, by h.p.l.c., 2D81, 7D69, 8D57, 10D93
in serum, by h.p.l.c., 4D107
"Toxi-Tube" extraction procedure for, 8D56
in serum or plasma, by g.l.c., 6D100
- Noscapine**, detmn. of, by h.p.l.c., 2E5
in plasma, by h.p.l.c., 2D53
- Nuclear fission products**, extraction of lanthanoids from, with tertiary amines, 5B98
- Nuclear magnetic resonance**, analysis of high-mol.-wt. organic compounds by, review, 11A8
automated library-search system for, 10J111
capillary-tube sealer for, 1J82
carbon-13, analysis of linear alkylbenzenesulphonates by, 8C69
computer-assisted data analysis in, review, 4A27
chiral lanthanoid shift reagents for, 5A13
fast curve-fitting in high-resolution, 4A26
FT, in analysis of mixtures, 6J156
FT - multinuclear, 5J139B
high-pressure, low-temperature cell for, 7J92
high-resolution, in analysis of solids, review, 3J85
in analysis of food, 5F1
in analysis of fossil fuels, symposium, 1A1B
in clinical analysis, review, 5D2
in clinical pathology, review, 12J114
in study of organic solids from fossil fuels, 12C49
interpretation of data from carbon-13, 10J112
multinuclear approach to, 1A2B
of liquids, review, 10J113
of nuclei other than protons, review, 7J91
two-dimensional FT, review, 7J90
with g.c., analysis of high-boiling fractions by, 8J65
with h.p.l.c., analysis of steroids by, 7J40
- Nuclear-reactor absorption elements**, detmn. of boron-10 in, 4B72
- Nuclear-reactor fuels**, analysis of, by XRF, 5B124
dissolution methods for, 9B84
self-interrogation reactivity method for, 8B60
detmn. of actinoids and lanthanoids in, by m.s., 4B94
detmn. of americium, curium, plutonium and uranium in, 4B92
plutonium and uranium in spent, by isotope-dilution α - and mass spectrometry, 5B119
detmn. of lanthanum-139 in, by h.p.l.c. - spectrophotometry, 12B71
detmn. of neptunium, plutonium and uranium in reprocessing soln. from, by XRF, 11B59
detmn. of neptunium in spent, by coulometry, 11B61
detmn. of oxygen, nitrogen and fluorine in, by n.a.a., 4B93
detmn. of plutonium and uranium in mixed oxide, by XRF, intensity-ratio method for, 11B58
detmn. of plutonium and uranium in spent, by differential spectrophotometry, 5B120
detmn. of plutonium in irradiated, 5B123
measurement of γ -activity of, instrument for, 2J103
measurement of burn-up of thorium - uranium dioxide, by m.s., 12B70
measurement of degree of burn-up of, from ratio of europium isotopes, 5B121
from ruthenium-to-caesium and caesium isotopic ratios, 5B122
measurement of free acidity in plutonium^{III}-containing reprocessing soln. from, 12B28
sepn. of palladium and technetium in reprocessing soln. from, by ion exchange, 10B74
sepn. of strontium from used, ammonium molybdophosphate column in, 12B77
- Nucleases**, assay of, by isoelectric focusing - polynucleotide/polyacrylamide-gel electrophoresis, 11D246
- Nucleic acid bases**, analysis of, h.p.l.c. in, review, 11D155
detmn. of purine and pyrimidine, in biological fluids, by h.p.l.c., 10D238
sepn. of, by h.p.l.c., 1D193
by ion-exchange chromatography, 7D213
by t.l.c. on cellulose, 4D286
- Nucleic acids**, analysis of, by h.p.l.c., review, 5D216
by Raman spectrometry, 6D241
concentration of, on polyacrylate gel, 3D8
detection of, in polyacrylamide gels, by silver staining, 11D213
detmn. of, dansylpyrimidine in fluorimetric, 10D234
detmn. of deoxyribonucleosides and nucleosides in digests of, by h.p.l.c., 6D278

Nucleic acids—continued

- potentiometric differential titration of components of, 5D218
 sepn. of, by ion-exchange chromatography, adsorbent for, 3J37
 sepn. of components of, by reversed-phase h.p.l.c., review, 7D214
 sepn. of fragments of, by h.p.l.c., 3D234
 by reversed-phase h.p.l.c., review, 7D215
 —, **deoxyribo-**, detection of, by polyacrylamide gel electrophoresis with silver staining, 3D225
 detmn. of, fluorimetric, after deposition on filters, 9D232
 in biological tissues, by fluorimetry, 1D191
 in cells, by flow cytofluorimetry, 11D215
 in epidermis and cultured fibroblasts, fluorimetric, 12D210
 in marine phytoplankton, ethidium bromide in fluorimetric, 4D279
 in tissues, automated, 10D11
 by spectrophotometry, 1D190
 detmn. of dimers containing thymine in, in u.v.-irradiated human cells, by h.p.l.c., 7D216
 detmn. of 5-methylcytosine in, by h.p.l.c., 7D217
 by stable-isotope-dilution g.c. - m.s., 3D235
 detmn. of osmium-modified, by cathodic-stripping voltammetry, 4D278
 recovery of, from agarose gels, 3D226
 sepn. of fragments of, by electrophoresis, transfer from gels to nitrocellulose, 11D214
 by gel filtration, 3D222
 sepn. of oligonucleotides from partial hydrolysates of, by affinity chromatography, 10D233
 sepn. of single- and double-stranded, by reversed-phase h.p.l.c., 10D232
 —, **ribo-**, analysis of fragments from enzymolysis of, by electrophoresis - h.p.l.c., 4D280
 detmn. of, in marine phytoplankton, ethidium bromide in fluorimetric, 4D279
 detmn. of purines and pyrimidines in, from protein-rich foods, 9F7
 detmn. of radio-labelled, on slab gels, instrument for, 8D193
 high-performance gel filtration of, loading capacity in, 6D272
 sepn. of, by h.p.l.c., 3D224
 by polyacrylamide gel electrophoresis, recovery from gels in, 12D209
 sepn. of fractions of, by electrophoresis on composite gel and chromatography, 11D216
 sepn. of fragments of, by gel filtration, 3D222
 sepn. of transfer-, by h.p.l.c., 3D223
 —, —, **transfer**, detection of, in electrophoresis, silver stain for, 5D219
Nucleoside kinase, assay of, washing of ion-exchange-paper discs in radiochemical, 9D266
Nucleoside phosphites, identn. of, by m.s., 7D218
Nucleosides, analysis of, h.p.l.c. in, review, 11D155
 detection of, by liquid chromatography - m.s., interface for, 7J71
 detmn. of, by h.p.l.c., 6D278
 by ion-exchange chromatography, 6D277
 by liquid-ionization m.s., 9J114
 detmn. of benzoyl groups in, by derivatization - g.c., 9C5
 detmn. of purine and pyrimidine, in biological fluids, by h.p.l.c., 10D238
 sepn. of, by h.p.l.c., liquid phases for, 7J30
 by ion-exchange chromatography, 7D213
 by t.l.c. on cellulose, 4D286
 sepn. of diastereoisomers of phosphorothioates of, by h.p.l.c., 7D222
 —, **deoxyribo-**, detmn. of, by h.p.l.c., 6D278
 by spectrophotometry, 5D223
 sepn. of, by h.p.l.c., 2D221
 —, **ribo-**, detmn. of, by h.p.l.c., 6D278
 in biological fluids, by h.p.l.c., 9D237
 sepn. of cis-diol-containing, in urine and serum, by affinity chromatography - h.p.l.c., 7D223
5'-Nucleotidase, assay of, in serum, automated spectrophotometric, 3D269
Nucleotides, analysis of, h.p.l.c. in, review, 11D155
 concentration of, by co-pptn. with calcium fluoride, 3D230
 detmn. of, by h.p.l.c. of chloroacetaldehyde derivatives, 2D218
 by immunoassay, 4D285
 by ion-exchange chromatography, 6D277
 by ring - disc electrochemical titration with bromine or hypobromite, 11D191
 in heart, by h.p.l.c., 3D232
 in sea-water, by h.p.l.c., review, 2H54
 in yeast cell extract, by computerized h.p.l.c., 8D219
 detmn. of benzoyl groups in, by derivatization - g.c., 9C5
 purification of 5'-phosphorylated oligo-, by reversed-phase h.p.l.c., 9D233
 sepn. of, by gel filtration, 1D80
 by h.p.l.c., review, 6D201
 by ion-exchange chromatography, 7D213
 by ion-pair reversed-phase h.p.l.c., 8D217
 sepn. of oligo-, by h.p.l.c. with multi-functional stationary phases, 7D220
 from DNA partial hydrolysates, by affinity chromatography, 10D233
 of same chain length, by anion-exchange h.p.l.c., 5D222
 sepn. of uridine, by t.l.c., 2J38
 —, **adenine**, detmn. of, by h.p.l.c., 6D274
 in myocardial tissues, by h.p.l.c., 8D218

Nucleotides—continued

- , **deoxyribo-**, sepn. of, by h.p.l.c., 2D221
 sepn. of thymine dimers in short oligomers of, by h.p.l.c., 10D231
 —, **guanine**, detmn. of, by h.p.l.c., 6D274
 —, **ribo-**, detmn. of, by h.p.l.c. - ICP a.e.s., 2D220
Nuclides, identn. of, microcomputer program in, 12A13
Nux vomica, detmn. of brucine and strychnine in, by h.p.l.c., 12E11
Nystatin, detection of, by microbiological assay with electrochemical detection, review, 1J101
- O**
- Oats**, detmn. of free fatty acids in lipids of, by h.p.l.c., 5G4
 detmn. of β -D-glucan in, by h.p.l.c. after pptn. with Calcofluor, 7G7
Obidoxime chloride, sepn. of, from related compounds, by cation-exchange h.p.l.c., 7E44
Occupational hygiene, analysis in, by chromatography, 1H1
Ochratoxin A, detection of, in cheese, by h.p.l.c., 10F44
 detmn. of, in animal feeds, by t.l.c., 7G17
 in barley, by enzyme-linked immunosorbent assay, 7G5
 in cereals, by t.l.c. and spectrophotometry, 2G5
 in cocoa beans, by h.p.l.c., 2F7
 in coffee beans, by h.p.l.c., 9F44
 in flour and feed, by t.l.c., 3G11
 in foods, by h.p.l.c., review, 10F12
 in mouldy food, by t.l.c., 5F6
 in wheat, by enzyme-linked immunosorbent assay, 10G5
 in wheat bran, by h.p.l.c., 8F21
Octadecane, sampling of, in air, apparatus for, 4H21
Octadec-12-enoic acid, 10-hydroxy-, identn. of, in adipocere, 7D121
Octadecenoic acids, sepn. of, by h.p.l.c. of phenacyl esters, 11D127
Octadecynoic acids, sepn. of, by h.p.l.c. of phenacyl esters, 11D127
Octanal, detmn. of, by g.c., after sorption on Tenax, effect of ozone on, 6H29
Octane, detmn. of, in petroleum, by g.c., 11C34
Octanoic acid, detmn. of, in albumin preparations, by g.l.c., 9E59
 —, **4-oxo-**, detmn. of, in plasma and urine, 4D162
Octathione, detmn. of, spectrophotometric, 11C81
Oct-1-ene, carbon-13 n.m.r. of, 2C6
Octopamine, detmn. of, in animal tissues, by h.p.l.c. with coulometric detection, 7D157
Octulosonic acid, 3-deoxy-, detection of, on chromatograms and electropherograms, 3A3
Ocular fluid, detmn. of copper in, by a.a.s., 7D20
17 β -Oestradiol, detmn. of, by r.i.a. with iodine-125-labelled tracers, 10D148
 in milk, by r.i.a., 5D147
 in plasma, by g.c. - m.s., 1D113
 by r.i.a., 7D145
 by solid-phase chemiluminescence immunoassay, 7D142
 in plasma or urine, by bioluminescence, 7D144
 in serum, by direct r.i.a., 6D190, 6D191, 12D139
 by r.i.a., 12D142
 reference material for, 5D143
 in urine, by h.p.l.c., 5D150
 by r.i.a., 4D187
 detmn. of free, in plasma, by rate dialysis, 8D128
 detmn. of unbound, in serum, by ultra-filtration, 10D147
 extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
 purification of partly degraded radiolabelled, by partition, 8D129
Oestradiol, ethynyl-, detmn. of, by normal and derivative spectrophotometry, 5E54
 in dosage forms, in presence of ethisterone, by h.p.l.c. with electrochemical detection, 8E86
 in mixtures, by second-derivative spectrophotometry, 12E60
 in plasma, urine and faeces, by r.i.a., 11D61
 —, —, **isopropylsulphonate**, analysis of, by t.l.c., h.p.l.c., m.s. and spectrophotometry, for study of stability, 8E87
Oestradiol 3-glucuronide, detmn. of, in urine, by r.i.a., 8D135
Oestradiol 17-sulphate, detmn. of, in urine, by r.i.a., 4D187
Oestradiol 17-sulphate 2-hydroxylase, assay of, by h.p.l.c., 6D293
Oestra-1,3,5(10)-triene-2,3,17 β -triol, detmn. of, by r.i.a., haptens for, 1D112
Oestra-1,3,5(10)-triene-3,4,17 β -triol, detmn. of, by r.i.a., haptens for, 1D112
Oestra-1,3,5(10)-trien-16-one, 3,17 β -dihydroxy-, detmn. of, in urine, by r.i.a., 4D187
Oestriol, detmn. of, in capsules, by h.p.l.c., 10J35
 in saliva, by r.i.a., effect of sampling time on, 8D136
 in serum, by h.p.l.c., 2D153
 in serum of pregnant women, by chemiluminescence, 9D137
 in serum or plasma, by h.p.l.c., 12D141
 in urine, by h.p.l.c., 5D148, 5D150
 by r.i.a., 4D187
 detmn. of placental, in urine, by g.c. and h.p.l.c., 7D143
 detmn. of tritiated, by two-phase liquid scintillation counting, 11D150
 sepn. of radio-iodinated, by adsorption chromatography, 3D118
Oestriol-6-(O-carboxymethyl)oxime tyrosine methyl ester, sepn. of radio-iodinated, by adsorption chromatography, 3D118

- Oestriol 16 α -glucuronide**, detmn. of, in urine, by ligand differentiation immunoassay, 3D117
by r.i.a., 4D187
- Oestrogen glucuronides**, characterization of, by fast-atom-bombardment m.s., 5D144
- Oestrogens**, detmn. of, in baby food, by g.c. - m.s., 5F7
in biological materials, by g.l.c. - m.s., standards for, 5D146
in blood serum, by h.p.l.c., 4D186
in edible animal tissues and endocrine glands, by r.i.a., review, 12D135
in urine, by homogeneous enzyme immunoassay, 12D140
by h.p.l.c., 5D150
by r.i.a., 4D187
- detmn. of synthetic, in meat, bile, urine and faeces, by r.i.a., review, 8F25
extraction of, from urine, with Sep-Pak C₁₈, 8D138
fractionation of catechol, by anion-exchange chromatography, 4D185
sepn. of, by h.p.l.c. on phenyl-derivatized silica gel, 7D140
in biological fluids, by h.p.l.c. on Sephadex G-type gels, review, 2D154
sepn. of monoglucuronides and monosulphates of, by h.p.l.c. with electrochemical detection, 11D151
- 2-methoxy-**, detmn. of, in serum, by r.i.a., 8D137
- Oestrogen sulphates**, characterization of, by fast-atom-bombardment m.s., 5D144
- Oestrone**, detmn. of, in plasma or urine, by bioluminescence, 7D144
in porcine serum, by enzyme immunoassay, 5D145
in urine, by h.p.l.c., 5D150
by r.i.a., 4D187
purification of partly degraded radiolabelled, by partition, 8D129
sepn. of, from lipid matrices, by extraction - micro-column chromatography, 5D151
- 16 α -hydroxy-**, detmn. of, in plasma, by r.i.a., 4D184
- Oestrone 3-glucuronide**, detmn. of, in urine, in presence of pregnanediol 3 α -glucuronide, by immunoassay, 4D182
- Oestrone 3-sulphate 16 α -hydroxylase**, assay of, in guinea-pig hepatic microsomes, by h.p.l.c., 9D246
- Oil-cake**, detection of argemone in, by t.l.c., 4G18
- Oil sand**, detmn. of organic matter in, low-temp. ashing in, 5C76
sepn. of asphaltenes in, by liquid chromatography, 7C54
thermal analysis of, review, 7C53
- Oilseeds**, detmn. of hydrocarbons in, by g.c., 2G11
detmn. of isothiocyanates and 5-vinylloxazolidine-2-thione in residues of, 8G8
detmn. of residual petroleum in, by g.c., 5G22
- Oil shale**, characterization of, by FT i.r. spectrophotometry, 7C62
detmn. of sulphur-containing gases in pyrolysis products of, by m.s., 12B174
- Ointment bases**, identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
- Ointments**, detmn. of cloquinol and hydrocortisone in, by h.p.l.c., 4E53
detmn. of formaldehyde in, spectrophotometric, 9C15
- Okra**, detmn. of carbaryl residues in, spectrophotometric, 10F50
- Oleanolic acid glucosides**, detmn. of, in *Araliaceae* species by t.l.c. - densitometry, 4E18
- Oleate**, sepn. of, in safflower oil, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43
- Oleic acid**, detmn. of, by t.l.c. - f.i.d., 5D132
- phenyl-**, sepn. of monohydroperoxides formed by autoxidation of, by h.p.l.c., 5D131
- Olein, 1,2-di-**, detmn. of, by t.l.c. - f.i.d., 5D132
- 1,3-di-**, detmn. of, by t.l.c. - f.i.d., 5D132
- tri-**, detmn. of, by t.l.c. - f.i.d., 5D132
- Oligosaccharides**, detection of, in urine, by t.l.c., 6D146
detmn. of, by anion-exchange chromatography, 2C17
by methylation - g.c., 12D113
purification of methylation reaction products of, by adsorption on Sep-Pak cartridges, 4D146
sepn. of, by gel-permeation chromatography and h.p.l.c., 10C16
from levan hydrolysate, by cellulose column chromatography, 2D129
sepn. of anionic, by h.p.l.c., 6D148
sepn. of cello-, by h.p.l.c. of oximes, 6C9
sepn. of hyaluronate, by h.p.l.c., 3D92
sepn. of malto-, by ion-exchange chromatography, mutarotation catalysts in, 3C13
sepn. of permethylated alditols of, by t.l.c. and g.l.c., 6D147
- Oltoriside**, detmn. of, spectrophotometric, 3E12
- Olive oil**, analysis of triglycerides of, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
characterization of, fluorescence topography in, 9F57
detmn. of peroxidized fatty acids in, iodimetric and polarographic, 12F42
detmn. of sterols, 4F80
identn. of polar components of, by h.p.l.c., t.l.c. and g.c. - m.s., 2F40
sepn. of triglycerides in, by h.p.l.c., 11D136
by t.l.c., 4F78
- Oltipraz**, detmn. of, in serum, plasma or urine, by g.l.c., 9D92
- Omeprazole**, detmn. of, and its sulphone and sulphide metabolites, in plasma and urine, by h.p.l.c., 7D92
- Omethoate**, detmn. of, in nectar, by g.l.c., 7D107
- Onions**, detmn. of S-alkyl-L-cysteine sulphoxides in, by t.l.c. and g.c. - m.s., 5F38
detmn. of linuron and difenoxuron in, by t.l.c., 2G19
- Ononin**, detmn. of, in *Ononis arvensis* root, by paper chromatography - spectrophotometry, 5E16
- Ononis arvensis**, detmn. of ononin in, by paper chromatography - spectrophotometry, 5E16
- Ononis spinosa**, detmn. of flavonoids in, by h.p.l.c., 7D203
- Ophthalmic acid**, detmn. of, in lens, liver and brain of mammals, by h.p.l.c., 9D194
- Ophthalmic preparations**, detmn. of sulphacetamide sodium in, improved end-point in non-aqueous titrimetric, 11E43
- Opiates**, detmn. of, in blood, by thin-layer immunoassay, 5D44
in diamorphine, by h.p.l.c., 2E9
in urine, interference by doxylamine in, 5D58
- Opiamrol**, detmn. of, by rotating-disc-electrode voltammetry, 7E24
in dosage forms, by spectrophotometry as picric acid complexes, 1E26
- Opium**, detmn. of diamorphine in illicit, by h.p.l.c., 10E8
- Opium alkaloids**, detmn. of, and their metabolites, in urine, by g.c. - m.s., 11D39
sepn. of, by h.p.l.c., 9E5
by reversed-phase ion-pair chromatography, 9E2
- Optical whitening agents**, detection of, by t.l.c., 4C86
- Optimization**, amplification reactions in, recommended definition of, 4A3
of analytical response, modified Simplex method for, 4A15
of extraction of manganese, 4B147
symmetry-controlled procedure for Simplex, 5A23
- Orange juice**, detmn. of, in orangeade and concentrates, 5F44
detmn. of benzoic acid and sorbic acid in, by t.l.c., 11F10
detmn. of food dyes in, Aliquat 336 in extraction - spectrophotometric, 10F20
detmn. of iron and manganese in, by a.a.s., 12F30
detmn. of low-mol.-wt. compounds in, by g.c., head-space or split injection in, 11J53
detmn. of organic acids in, by h.p.l.c., 5F36
- Orange roughly oil**, analysis of, by m.s. - m.s., 9C89
- Oranges**, detmn. of bergaptol in, by h.p.l.c., 8F41
detmn. of biphenyl in, by t.l.c., 7G31
detmn. of quinomethionate in, by h.p.l.c., 2G21
- Orchard leaves**, detmn. of mercury in, by a.a.s., 4D39
- Orciprenaline sulphate**, detmn. of, in formulations, colorimetric, 10E32
in pharmaceutical preparations, molybdophosphoric acid in spectrophotometric, 11E19
- Organic analysis**, acid pressure decomposition in, review, 10A5
by a.a.s., review, 6B14
g.c. - m.s. in, 12J74
in archaeology, 1C32
on capillary columns, by g.c., retention ratios for, 10G17
trace, sample-treatment techniques for, review, 7C2
- Organic bases**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E4
- Organic compounds**, adsorption of, in air, competition in, 10H32
analysis of, as pollutants in waste waters, liquid-chromatographic, 7H74
by g.c., molybdenum and tungsten sulphides as adsorbents for, 10J73
by secondary-ion m.s., 11J15
analysis of mixtures of, by turbidimetric titration, 11A16
characterization of, in aspen wood oil, by spectroscopy and chromatography, 4C78
concentration of trace, in clinical, environmental and pharmacological materials, by liquid chromatography, review, 4C2
detection of, decolorized dyes for, 6C2
detection of radioactively labelled, on t.l.c. plates, scintillation counting system for, 11J20
detection of toxic, continuous monitor for, 12H8
detection of trace, in aq. soln., by g.l.c., 5C24
detmn. of, by g.c., after adsorption and partial desorption, 7C31
after sorption on Tenax, effect of ozone on, 6H29
by g.l.c., internal standards in, 2C2
by indirect a.a.s., review, 7C3
by liquid-ionization m.s., 9J114
by symmetrical prismatic m.s., 9C1
in aerosols, volatilization artefact in cascade impactor sampling in, 11H20
in air, by g.c. - m.s., review, 8H21
drinking water and breath, 2H19
in air-borne particulates, extraction in, 6H28
in aq. soln., amperometric detector for, 11J17
by direct g.c., 8C1
in drinking water, review, 8H75
in fly ash, by g.c. - m.s., 3H81
in ground water, sampling criteria for, 11H56
in hexamethylphosphoric triamide, half-wave potential for electrochemical, 1A3
in landfill gas, by g.c. - m.s., 2H18
in liquid carbon dioxide aerosols, by h.p.l.c., 10C5
in natural and waste water, by h.p.l.c., review, 10H41
in water, by closed-loop gas-phase stripping, 6H79
by g.c. and m.s., 10H68
by g.c. - m.s., extraction methods for, 12H77

Organic compounds, detmn. of, in water,—*continued*

- by g.c. - m.s. after recovery by closed-loop stripping, 5H73
- by h.p.l.c. - m.s., review, 12H75
- review, 10H72
- in water and waste water, 5H74
- potassium permanganate in titrimetric, review, 10C1
- reaction kinetics of and catalysis in, 4C1
- detmn. of carbon, hydrogen, oxygen and nitrogen in, by sulphurization - g.c., 2C5
- hydrogen and nitrogen in, by differential thermal conductivity, apparatus for, 12C4
- by pyrolysis - g.c., 2C4
- statistical evaluation of, 11C3
- hydrogen and sulphur in, ICP - FT near-i.r. spectrometer system for, 12C5
- detmn. of carbon and hydrogen in, removal of interference by phosphorus pentoxide in, 5C6
- detmn. of carbon and nitrogen in, by chromatography, 2C3
- detmn. of copper in, by potentiometric titration, 7C7
- detmn. of elements in, by pyrolysis - g.c., 4C5
- review, 7C5
- detmn. of fluorine in, with fluoride-selective electrode, 1C4
- detmn. of halogens and sulphur in, simultaneously, titrimetric, 10C8
- detmn. of halogens in, by ion chromatography after sodium fusion, 4C6
- detmn. of inorganic by-products in, by t.l.c., 9B16
- detmn. of low-mol.-wt., by g.c., head-space or split injection in, 11J53
- detmn. of mercury in, by cold-vapour a.a.s., 6B62
- detmn. of nickel in, combustion - titrimetric, 9C11
- detmn. of non-volatile, by vapour-phase analysis, 3C2
- detmn. of oxygen-18 in, 6C4
- detmn. of phosphorus and sulphur in, by indirect a.a.s., 12C7
- detmn. of polar, by g.c. with direct aq. injection, 10C2
- in air, by g.c., 11J58
- review, 9H25
- in waters, by h.p.l.c. - a.a.s., 6H92
- detmn. of purgeable, in ground water, sampling for, 10H39
- detmn. of sulphur in, by combustion - potentiometric titration, 5C8
- detmn. of total, in minerals, soil and rocks, 1B154
- detmn. of trace, by chemical-ionization m.s., 7J101
- by head-space g.l.c., review, 7J54
- in potable waters, by g.c., 10H70
- in waste water, by fluorimetry, automated system for, 5H93
- in water, by g.c. - m.s., 7H54
- in water supplies, sampling for, 10H71
- detmn. of unsaturated, by colorimetry, 5C11
- by spectrophotometry, after epoxidation and reaction with 2,4-dinitrobenzenesulphonic acid and piperazine, 5C10
- detmn. of volatile, in apple juice, in presence of sodium chloride, by g.c. and aroma test, 9F42
- in fish or shellfish, by g.l.c., 4D139
- in grapefruit juice, by g.c., isolation methods for, 11F29
- in ground water, by trapping, combustion and i.r. spectrophotometry, 7H57
- in water, by capillary g.c. with e.c.d., 9H69
- by closed-loop gaseous stripping - thermal desorption, 10H66
- in wine, by g.l.c., 3F29
- detmn. of volatile and water-soluble, in polyamide, by gravimetry, 5F11
- elementary analysis of, ion chromatography in, 7J46
- extraction of, by steam-distillation, 6C1
- from biological fluids, 4D63
- from sea-water, by adsorption on resin, 5H76
- from solids, efficiencies of, 4H85
- from water, with dynamic head-space-sampling pre-concentration, 12H78
- extraction of basic, from river and waste water, by cation exchange, 3H60
- extraction of trace, from water, solvents and sorbents in, 9H68
- identn. of, in fly ash from municipal incinerator, by h.p.l.c. and g.l.c., 10B175
- in hazardous waste, by g.c. - FT i.r., 10H91
- in mixtures, by computerized deconvolution of i.r. spectra, 6J151
- in water, by g.c. - m.s., purge-and-trap system for, 7H58
- sectors and quadrupoles in m.s., review, 8C2
- identn. of substructures in, by i.r. spectrometry, computer program for, 4C3
- identn. of toxic, by tunable Zeeman spectrometry, 2J71
- identn. of trace volatile, in coffee, by g.c. and g.c. - m.s., 3F22
- identn. of volatile, in jackfruit, by g.c. - m.s., 3F19
- monitoring of, in waste gases, efficiency of f.i.d. in, 6H26
- monitoring of volatile, in air, evaluation of instruments for, 4H32
- m.s. of, surface ionization in, 11C1
- with laser micro-probe, review, 7C1
- m.s. of non-volatile, TMS molecular adduct ions for, 3C1
- potassium-ion chemical-ionization m.s. of, 12J123
- sampling of, in air, device for removal of water in, 5H30
- effect of r.h. of air on efficiency of solid adsorbents for, 12H30
- effects of reactive inorganic gases on Tenax-GC in, 12H33
- polyimide sorbents for, 9H26
- retention properties of samplers for, 1H16
- sorbents for, 9H27

Organic compounds, sampling of,—*continued*

- in air of stacks, review, 8H20
- in cigarette smoke, for g.c. analysis, 4D141
- sampling of volatile, in water, 11H57
- secondary-ion m.s. of, 4J145
- sepn. of, by capillary column g.l.c., effect of modification of glass column surface with carbon on, 10J66
- by g.c., column packings for, 3J56
- by g.c. on micro-porous styrene - divinylbenzene - vinylpyridine copolymers, 10J67
- by g.l.c., porous-layer capillary columns for, 6J85
- by g.s.c., stationary phases for, 9J57
- by liquid chromatography, cyclodextrin phases for, 5C3
- from water, methods for, 11H55
- in lipid extracts of sediments, by h.p.l.c., 7H62
- sepn. of complex mixtures of, by g.c., systems for, 4J55
- sepn. of isotopically labelled, by g.c., 9C2
- sepn. of optical isomers of, by liquid chromatography, review, 9C3
- sorption of, from water, adsorbent for, 6H81
- thermal analysis of hydrates of, 1E2
- , **nitro-**, sampling of, in air, sorbents for, 4H37
- , **N-nitroso-**, detmn. of, in gastric juice, by chemiluminescence, 4D47
- Organic materials**, detmn. of chloride in, by low-temp. ashing, 5C7
- detmn. of metals in, cool oxygen-plasma ashing for, 5C9
- detmn. of nitrogen in, Kjeldahl, review, 4F4
- Organic matter**, detmn. of, in marine sediment, 5H75
- Organometallic compounds**, detection of, by f.i.d., 5J62
- detmn. of anions of, by m.s., review, 6C5
- detmn. of elements in, by pyrolysis - g.c., 4C5
- detmn. of oxygen in, automatic analysers in, 12C6
- sepn. of, by gel-permeation chromatography, 8C3
- Organophosphorus compounds**, detection of, by photo-degradation to orthophosphate, 6C15
- Organosilicon compounds**, detmn. of chromium, silicon, tin and vanadium in, by a.a.s., 4C33
- identn. of, by g.c., 3C24
- Organosulphur compounds**, detmn. of, by g.l.c., fluorine-induced-chemiluminescence detector for, 4C28
- Organotin compounds**, detmn. of, in environmental and biological samples, by fluorimetry, 5C39
- Ornidazole**, detmn. of, in urine and blood, by g.l.c., 9D91
- Ornithine-oxo-acid aminotransferase**, assay of, 8D243
- Orosomucoid**, detmn. of, in serum, by enzymic assay - liquid chromatography, 5D9
- Orotate**, detmn. of, in milk, by h.p.l.c., 4D287
- Orotidine**, sepn. of, by ion-pair h.p.l.c., 12D211
- Orphenadrine**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 12E48
- in serum, by g.l.c., 5D88
- in syrup, by h.p.l.c., 6E45
- Oryzalin**, detmn. of, in waters, soil and sweet potatoes, by derivatization - g.l.c., 10G19
- Osmium**, complexes of, by fast-atom-bombardment and field-desorption m.s., study of, 5B21
- detmn. of, by catalytic reaction with electrochemical detection, 7B137
- by ion-beam analysis, pre-concentration in, 12B157
- by spectrophotometry, thiopicolinamide derivatives in, 4B188
- in minerals, by stripping voltammetry, 6B174
- in nickel, nickel ores and nickel sulphide, by chemiluminescence, 4B179
- in ores and diabase, by chromatography - a.f.s., 1B147
- in presence of ruthenium, extraction - spectrophotometric, 11B151
- spectrophotometric, 9B170
- perphenazine in spectrophotometric, 12B170
- pyrimidinethiol derivative in spectrophotometric, 9B169
- spectrophotometric, 9B173
- extraction of, diethyldithiophosphate in, 4B187
- isotopic analysis of, by laser micro-probe mass analyser, 6J162
- sepn. of, from other platinum-group metals, 7B134
- from ruthenium, bis-(2-ethylhexyl) sulphoxide in reversed-phase paper-chromatographic, 5B249
- polyurethan foam in, 9B171
- Osmium alloys**, detmn. of osmium and ruthenium in, extraction - spectrophotometric, 11B151
- Ovalbumin**, detmn. of, by potentiometric titration, 1D167
- identn. of glycopeptides of, by h.p.l.c., 11D207
- Oxacillin sodium**, detmn. of, by FT i.r. internal-reflection spectrophotometry, 8E29
- 1,3,4-Oxadiazole derivatives**, **4-acyl**, g.c. - m.s. of, 12C41
- Oxalate**, detmn. of, by spectrophotometry, inhibition of oxidation of 2,4-diaminophenol in, 4C16
- in blood plasma, enzymic, 9D125
- in foods, enzymic, 11F2
- in human urine, by h.p.l.c., 12D120
- in urine, 6D164
- by electrogenerated chemiluminescence, 7D120
- by g.c., 9D124
- enzymic, 3D103, 4D157, 4D159
- pre-treatment procedure for, 10D14
- thallium in titrimetric and spectrophotometric, 9C16

- Oxalates**, detection of, in spinach and rhubarb, enzymic degradation in, 3F20
- Oxalic acid**, detection of, in spinach and rhubarb, enzymic degradation in, 3F20
- detmn. of, by photochemical oxidation with thallium^{III}, 7C22
- in plasma, enzymic - spectrophotometric, 5D128
- in wine, by paper chromatography, 4F72
- pH-metric, 4C17
- sepn. of, by paper chromatography, 11C11
- from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- Oxalic acid sodium salt**, detmn. of, by titration with manganese, 10A10
- Oxalohydrazide**, detmn. of, spectrophotometric, 3C20
- Oxamic acid**, *NN'-(2-chloro-5-cyano-m-phenylene)di-*, detmn. of, in plasma, by h.p.l.c., 2D99
- Oxazepam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
- detmn. of, in biological fluids, by r.i.a., antiserum for, 10D91
- in capsules and tablets, by h.p.l.c., 6E37
- in tablets and capsules, by h.p.l.c., 2E29
- sepn. of glucuronides of, in plasma, urine and bile, by h.p.l.c., 11D77
- Oxazolidine-2-thione**, *5-vinyl-*, detmn. of, in oilseed residues, 8G8
- Oxazolidin-2-one**, *3-[4-(3-cyanobenzoyloxy)phenyl]-5-(methoxymethyl)-*, detmn. of, in plasma, by h.p.l.c., 6D101
- Oxcarbazepine**, detmn. of, in plasma, by h.p.l.c., 2D65
- Oxidants**, detmn. of, by coulometric and photochemical titrimetry, 4B13
- Oxides**, analysis of, by secondary neutral m.s., 7J115
- Oxidizing agents**, detmn. of, in water, instrumental, review, 7H29
- Oxidizing groups**, detmn. of, in chlorinated wool, iodimetric, 6C52
- Oxiran**, detmn. of, in air, by automated g.c., 1H19
- by g.c., portable system in, 2H24
- by reaction with hydrochloric acid and g.l.c., 7H24
- in methyloxiran polyethers, by g.l.c., 2C70
- in sterilized medical devices, by g.s.c., 5E1
- in sterilizing gas, by i.r. spectrometry, 5E61
- in suture threads, by g.c., 5E62
- , *alkyl-*, sepn. of enantiomers of, by complexation g.c., 12J67
- , *methyl-*, detmn. of impurities in polyethers of, by g.l.c., 2C70
- detmn. of propionaldehyde and acetone in, polarographic, 9C38
- , *phenyl-*, sepn. of diastereoisomers of glutathione adducts with, by h.p.l.c., 3D256
- Oxiran derivatives**, detmn. of, in urban air, by g.c., 6H27
- Oximetidine**, detmn. of, in biological fluids, by h.p.l.c., 8D79
- Oxoglutarate dehydrogenase**, assay of, spectrophotometric, 3D250
- Oxolamine citrate**, identn. of, microscopic and chemical, 1E1
- Oxolinic acid**, identn. of, in fish, by h.p.l.c., 11D100
- Oxpentifylline**, detmn. of, with its hydroxy-metabolite, in plasma, by h.p.l.c., 9D83
- with its metabolites, by t.l.c. and h.p.l.c., 8D68
- Oxprenolol**, detmn. of, by direct anodic rotating-disc-electrode voltammetry, 7E31
- in plasma, by g.l.c., 5D78
- Oxyfedrine hydrochloride**, detmn. of, in tablets, colorimetric, 11E37
- Oxygen**, depth profiling of, by helium-3-induced nuclear reaction, 12J143
- detection of, after desorption from solids, apparatus for, 7J4
- fluorescence sensor for, 9B111
- detection of traces of, in gallium arsenide semiconductors, by m.s., helium cryopumping in, 8B138
- detmn. of, by activation with heavy ions, review, 12B10
- by fast n.a.a., on-line computerized system for, 8B91
- by n.a.a., elimination of random and systematic errors in, 12B118
- by α -particle-induced γ -ray emission, 5B10
- by scattering of combination X-ray lines, 8B7
- by X-ray-source Raman spectrometry, 7B18
- chemical - fibre optic sensors in, review, 9J68
- from sewage, electrometric, 12H97
- hot hollow cathode device for spectral-isotopic, 12B13
- in aluminium chloride, by n.a.a., 3B48
- in aq. media, review, 11B102
- in beer, sensor for, 8F57
- in biological materials, by vaporization - plasma emission spectrometry, 6D36
- in blood, by amperometry, 2D40
- instrumentation for, 1D24
- temp. correction in, review, 6D27
- temp.-insensitivity of non-aqueous controls in, 4D53, 4D54
- in blood and haemoglobin, electrode for, 3D216
- in blood and tissue, sensor for, 9D31
- in coal, char and coke, micro-analysers in, 5B278
- in copper, by g.c., 2B20
- in dinitrogen tetroxide, by g.c., 10B96
- in fire gases, by Raman spectroscopy, 5C96
- in gases, by g.c., 5J6
- by g.s.c., 3D11
- electrochemical cell for, 4B128
- electrochemical detectors for, 5B185
- solid-electrolyte detectors in, errors in, 3B73
- in gas mixtures, indirectly with sub-millimetre spectrometer, 10B112
- in indium phosphide, by triton-activation analysis, 12B186
- in iron- and steel-making gases, with zirconia-based electrochemical cells, 9B149
- Oxygen**, detmn. of, —continued
- in metals, by laser m.s., 12B21
- by n.a.a., 5B7
- review, 4B26
- in minerals, by ion-beam bombardment - annihilation γ -ray detection, 12J141
- in molten steel, solid-electrolyte probe in, 4B162
- in natural and industrial gases, by g.c., 8C50
- in non-volatile petroleum fractions, review, 12C45
- in nuclear-reactor fuel, by n.a.a., 4B93
- in organic compounds, by sulphurization - g.c., 2C5
- in organometallic compounds, automatic analysers in, 12C6
- in polluted waters, by stripping with inert gas, 8H70
- in powders, by scanning electron microscopy and energy-dispersive X-ray spectroscopy, 11J81
- in rocks, by n.a.a., 10B114
- in silicon, by inert-gas fusion - g.c., 4B104
- in steel, by n.a.a., 3B95
- in surface layers of non-reactive materials, 11B165
- in thin foils and films, by elastic recoil detection, 12B14
- in uranium compounds, by inert-gas fusion, 4B95
- in uranium oxide fuels, polarographic, 8B61
- in water, by g.c., 10H42
- simultaneously with other elements in organic compounds, by pyrolysis - g.c., 12C3
- with strontium-doped lanthanum chromite electrode, 11J05
- detmn. of active, in washing powders, titrimetric, 7C70
- detmn. of adsorbed or entrapped, in dehydrated food, by head-space analysis, 6F1
- detmn. of dissolved, in industrial water, 9H59
- in river water, monitoring and telemetry system for, 10H40
- in water, 5H38
- by anodic-stripping voltammetry, 3H50
- by potentiometric titration, 4H67
- by spectrophotometry with cyclohexanedi-aminetetra-acetic acid, 6H56
- detmn. of isotopes of, in air, by cryogenic sepn. - m.s., 10H22
- detmn. of oxygen-18 enrichment of, in potassium bromate or chlorate, by pyrolysis - g.c. - m.s., 10B113
- detmn. of profile of, in Zircaloy cladding, by Auger micro-probe and electron-probe micro-analysis, 8B76
- detmn. of rare stable isotopes of, charged-particle induced prompt γ -rays in, 11B9
- detmn. of ratio to uranium of, in uranium dioxide, review, 9B85
- detmn. of surface content of, in copper, thermal methods for, 12B40
- detmn. of trace, in gases, apparatus for, 12B17
- in high-purity gases, by g.s.c., detector for, 7J69
- electrochemical gas analyser for, 11J139
- measurement of partial pressure of, in blood, temp. correction in, 12D42, 12D43
- Oxygen-18**, detmn. of, in organic compounds and in waters, 6C4
- Oxymetazoline hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- spectrophotometric, 9E44
- Oxyphenbutazone**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E28
- in plasma, by h.p.l.c., 2D73
- Oxyphenacylimine**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Oxyphenonium**, detmn. of, in plasma and urine, by radioreceptor assay, 11D95
- Oxypurinol**, detmn. of, in serum, plasma and urine, by h.p.l.c., 11D106
- Oxytetracycline**, detmn. of, in fish, by t.l.c., 1F11
- Oxytocin**, detmn. of, in pharmaceuticals, by h.p.l.c., 5E9
- in plasma, by r.i.a., 5D191, 8D183
- sepn. of diastereoisomers of analogues of, by h.p.l.c., 4E30
- Oysters**, detmn. of cadmium and lead in, by microcomputer-controlled graphite-furnace a.a.s., 5J92
- detmn. of mercury in, by a.a.s., 4D39
- detmn. of organic sulphur compounds in, by g.c. - m.s., 3H70
- detmn. of phosphorus in, by α -particle activation analysis, 5D29
- Ozone**, detmn. of, in air, personal monitors for, review, 9H23
- solid-state electrochemical sensor for, 5H27
- in potable water, by iodimetry, 4H66
- in water, bis-(2,2',2''-terpyridyl)iron^{II} in spectrophotometric, 12H68
- by spectrophotometry, 6H70
- instrumental, review, 7H29
- detmn. of trace, in air, by g.c., review, 6H6
- sampling of, 1H15

- Pachycarpine**, electrophoresis of, indicator for, 6E2
- Pachycarpine hydriodide**, detmn. of, in pharmaceutical preparations, iodimetric, 6E44
- Packaging materials**, detection of additives from, in food, by h.p.l.c., in migration study, 8F15
- detmn. of BHT in, by t.l.c., 2F11
- detmn. of limonene in, by automated thermal-desorption pyrolysis - g.c., 9J54

Packaging materials—continued

- enrichment of compounds migrating from, in fats, apparatus for, 10F67
 extraction of Dastib-845 from polyethylene, 1F5
 for foods, detmn. of chlorophenols in, by h.p.l.c., 3F9
 detmn. of hydrogen peroxide on, enzymic or titrimetric, 8F13
Paeonia lactiflora, detmn. of paeoniflorin in, by t.l.c., 5E15
Paeoniflora, detmn. of, in medicinal plants and pharmaceutical preparations, by t.l.c., 5E15
Paints, analysis of, by chromatography, i.r. spectrometry, thermometry and viscometry, 6C56
 by energy-dispersive XRF, 6C57
 by PIXE, 7D13
 by XRF, 11A6B
 detmn. of copper resinate in anti-fouling, 1B163
 detmn. of organotin compounds in antifouling, by h.p.l.c. - flame a.s.s., 6C17
 detmn. of phosphite esters in additives for, by titrimetry, 5B165
 detmn. of residual solvents and monomers in, by heating - g.l.c., 10C82
 detmn. of residue in pigments and extenders for, by mechanical flushing through sieve, 6C62
 detmn. of resins, modifiers and drying oils in, by n.m.r., 6C58
 identn. of automotive, solubility scheme for, 12C76
 identn. of binders in, by i.r. spectrophotometry, 8C90
 identn. of pigments in, micro-spectrophotometric, 9C87
 particle size analysis of, by electrical birefringence, 2J130
 sampling of vapours from, passive diffusion samplers for, 11H30
Paint thinner, analysis of, thickly coated open-tubular columns in g.l.c., 4J72
Paka, detmn. of cyclopropanoic acids in seeds of, micro-method for, 4G5
Palladium, analysis of electroplated layers of, on copper, 6B171
 detmn. of, 3-acetoxy-7-methylphenothiazine in spectrophotometric, 10B168
 (2-acetyl)thioacetanilide in gravimetric, 1B139
 acridine orange in extraction - absorptiometric, 12B165
 after enrichment on thiol-cotton column, by anodic-stripping voltammetry, 9B31
 8-amino-5-phenylazoquinoline in spectrophotometric, 4B184
 1-(2-amino-*p*-tolyl)-4,4,6-trimethyl-1*H*,4*H*-pyrimidine-2-thiol in spectrophotometric, 12B167
 as bromo-anion complexes, by ion-pair partition chromatography, 4B181
 by a.a.s. with tungsten-tube atomizer, 9B159
 by a.c. polarography, reagent for, 6B172
 by amperometric titration, palladium-black electrode in, 5B258
 by co-pptn. - sub-stoichiometric coulometry, 10B166
 by derivative spectrophotometry with 2-thiobarbituric acid, 6B170
 by g.c. as chelates with bis(trifluoroethyl)- and di-isobutyl-dithiocarbamates, 1B13
 by gravimetry, 1B145
 by gravimetry with quinolin-8-amine, 4B170
 by h.p.l.c., 3B105
 by h.p.l.c. - spectrophotometry, 4B190
 by ICP a.e.s., 8B10
 by ion-beam analysis, pre-concentration in, 12B157
 by ion-pair chromatography, 6B173
 by polarography, ϵ -caprolactam as complexing agent in, 5B255
 by potentiometric titration with potassium iodide, 9B168
 by spark-source m.s., pre-concentration on aluminium powder in, 3B12
 by spectrophotometry, 1B143
 C. I. Mordant Blue 3 in spectrophotometric, 3B10
 cyclohexane-1,3-dione bis-thiosemicarbazone monohydrochloride in spectrophotometric, 9B165
 4-(3,5-dichloro-2-pyridylazo)-*m*-phenylenediamine in spectrophotometric, 5B257, 12B166
 extraction - spectrophotometric, 10B165
 gravimetric, 12B168
 imipramine in spectrophotometric, 5B256
 in alloys, thiocyanate in complexometric, 2B81
 in alloys and minerals, *p*-anisaldehyde thiosemicarbazone in spectrophotometric, 9B164
 by spectrophotometry, 4B183
 in asbestos, by spectrophotometry, 1B142
 in catalysts, by fluorimetry, 7B136
 by spectrophotometry, 2B90
 photometric, 12B183
 polarographic, 9B183
 in catalysts and antibiotics, by spectrophotometry, 6E24
 in geological materials, by extraction - a.a.s., 1B138
 in geological samples, by ion exchange with ICP a.e.s. detection, 12B173
 in jewellery, by spectrophotometry after complexation with propylidiazine, 4B182
 in mixtures, by spectrophotometry, 6B20
 in nickel-plating electrolyte, by spectrography, 10B162
 in ores, by electrothermal a.a.s., 11B150
 spectrophotometric, 9B166
 in ores and flotation tailings, by a.a.s., 9B160
 in presence of carbon and iridium, chemical - absorptiometric, 10B14
 in presence of platinum or iridium, by a.a.s., 1B146

Palladium, detmn. of,—continued

- in rocks, by m.s. with isotope dilution, 5A17
 by n.a.a., co-pptn. with tellurium in, 5B250
 in sea-water, by anodic-stripping voltammetry, electrode for, 6J187
 in silicate rocks, by n.a.a., *N,N'*-dibenzylthio-oxamide in, 12B85
 in soln., by XRF, 5B263
 in soln. of its co-ordination compounds, by a.a.s., 4B185
 in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
 lobeline complex in amperometric titrimetric, 10B167
 mercaptosuccinic acid in titrimetric, 10B39
 methoxypromazine in spectrophotometric, 1B149
 phenanthraquinone monoxime in spectrophotometric, 12B164
 1,10-phenanthroline and cation in spectrophotometric, 5B15
 semi-methylxlenol blue in spectrophotometric, 3B106
 sodium dibutyldiselenocarbamate in spectrophotometric, 12B16
 spectrophotometric, 1B144, 9B167
 sulphur-containing reagents in spectrophotometric, 4B186
 2-thiobarbituric acid in spectrophotometric, 7B135
 detmn. of isotopes of, in irradiated actinoids, by m.s., 5B105
 detmn. of silver in, by spectrophotometry, 2B21
 detmn. of trace, by thermal-ionization m.s., direct electro-deposition in, 11J110
 extraction of, with 2,2'-bipyridyl and hexachloro-derivative of cobalt dicarbollide, 5B260
 liquid - liquid extraction of, solvating and anion-exchange extractants for, 5B259
 sepn. of, by cation-exchange chromatography, 4B180
 by ion flotation, 4B17
 from gold and platinum, by adsorption - column chromatography, 3B14
 from nuclear fuel reprocessing soln., by ion exchange, 10B74
 from other metals, by t.l.c., 12B169
 from platinum, bis-(2-ethylhexyl) sulphoxide in reversed-phase paper-chromatographic, 5B249
Palladium alloys, analysis of, by Auger-electron spectroscopy, matrix-effect correction in, 7J96
 detmn. of iridium and palladium in, by a.a.s., 1B146
Palmitic acid, detmn. of carbon-11-labelled, in reaction mixtures, by preparative h.p.l.c., 5E5
Palmitic acid ascorbyl ester, detmn. of, in milk fat, by h.p.l.c., 10F46
Palm oil, analysis of, by pyrolysis - g.c. - m.s., 6F82
 detmn. of fatty acids in, by n.m.r., 2C55
 detmn. of tocopherols in, by h.p.l.c., 11C56
Panax ginseng, detmn. of ginsenosides of, by t.l.c. - densitometry, 11E13
Pancreas, assay of α -amylase in porcine, by ELISA, 8D251
 assay of isoenzymes of α -amylase in, by electrophoresis, 10D255
 assay of ribonuclease in, spectrophotometric, 12D244
 sepn. of lipids in, by ion exchange and t.l.c., 2D143
Panmasala, detmn. of menthol in, by g.c., 4E63
Pantethine, detmn. of, in vitamin preparations, by g.l.c., 12E33
Pantolactone, detmn. of, in pantothenate, 10D247
 in vitamin preparations, by g.l.c., 12E33
Pantothenate, detmn. of pantolactone formed in, 10D247
Pantothenic acid, detmn. of, enzymic, 5D229
 in multivitamin preparations, by h.p.l.c., 9E28
Pantothenic acid calcium salt, detmn. of, in multivitamin preparations, by h.p.l.c., 8E45
 in multivitamin tablets, by h.p.l.c., 10E21
 in vitamin preparations, by g.l.c., 12E33
Papain, assay of, benzoyloxycarbonylphenylalanyl-L-citrulline *p*-nitroanilide as substrate for, 10D256
 detmn. of, in beer, immunochemical, 5F51
 isolation of, by h.p.l.c., denaturation in, 10D254
Papaver bracteatum, detmn. of thebaine in, by t.l.c., 2E8
Papaver bracteatum Lindl., detmn. of thebaine in, by g.l.c., 3E4
Papaverine, detmn. of, by h.p.l.c., 2E5
 in dosage forms, by photometry, 10E9
 in granules and injections, by h.p.l.c., 12E10
 in pharmaceutical preparations, spectrophotometric, 2E4
 electrophoresis of, indicator for, 6E2
 sepn. of, by t.l.c., 1E7
Papaverine hydrochloride, detmn. of, by cerimetry, 4E3
 by potentiometric titrimetry, 7C26
Papaver somniferum, detmn. of alkaloids of, by h.p.l.c., 3E5
Paper, characterization of, by X-ray diffraction, 5C97
 detmn. of calcium, magnesium and iron in ash of, complexometric and spectrophotometric, 12C62
 detmn. of formaldehyde in, spectrophotometric, 9C15
 detmn. of heavy metals in, by a.a.s., 10C74
 detmn. of PCB in, by g.c., 11C65
 detmn. of titanium in, by differential pulse polarography, 5B153
 detmn. of water in, optical meter for, 4C81
 measurement of pH of aq. extracts of, 4C80
 —, **liquors from**, detmn. of anthraquinone in, by h.p.l.c., 8C78
 detmn. of sulphur in kraft, by titrimetry, 3H15
Paperboard, detmn. of PCB in, by g.c., 11C65
Paper pulp, detmn. of acid-insoluble ash in, by gravimetry, 9C74
 detmn. of resin in, extraction in, 4C82
 detmn. of sulfo- and carboxy-groups in sulphite-type, titrimetric, 11C66

Paper pulp—continued

- measurement of pH of aq. extracts of, 4C80
- Paprika**, detection of zearalenone in, by g.l.c., 4F59
- detmn. of insect fragments in ground, 8F50
- Papyri**, analysis of, by i.r. spectrometry, 1C32
- Paracetamol**, detection of, by h.p.l.c., electrochemical detector for, 10J40
- in serum, by t.l.c., detection reagent for, 11D71
- detmn. of, in biological fluids, by h.p.l.c., 6D89
- centrifugal analyser in enzymic, 7D60
- in blood and urine, 7D37
- in dosage forms and blood, by h.p.l.c., 5E32
- in multi-component tablets, by h.p.l.c., 12E39
- in pharmaceutical preparations, by h.p.l.c., 4E33, 11E24, 12E35
- in plasma, by h.p.l.c., 9D60
- colorimetric, 10D90
- enzymic, 5D61
- in serum, kit for, 5D63
- with discrete analyser, 2D76
- in tablets, by first-derivative spectrophotometry, 7E20
- in tablets and syrups, spectrophotometric, 12C27
- sepn. of, from catecholamines, by h.p.l.c., 5J40
- sepn. of metabolites of, in urine, by h.p.l.c., 11D69
- t.l.c. of, structure in relation to, 2E26
- Paraffin**, detmn. of, on fruits and vegetables, by g.c. at high temp., 9F39
- , **liquid**, detmn. of tritoyl phosphate in, colorimetric, 10F70
- Paraffin wax**, detmn. of, on fruits and vegetables, by g.c. at high temp., 9F39
- Paralytic shellfish poison**, detmn. of, in shellfish, by h.p.l.c., 3F16
- Paraquat**, detmn. of, by differential pulse polarography, 5G34
- in blood and urine, by g.c., 9D105
- in potatoes, by g.l.c., 6G29
- in urine, blood, milk, beverages and water, by colorimetry after Sep-Pak C₁₈ extraction, 7D101
- Parathion**, detection of, in biological materials, by t.l.c. and g.l.c., 3D87
- in citrus fruit, colorimetric, 8G16
- detmn. of, by t.l.c., 2G17
- enzyme electrode for, 5H82
- in waters, by g.c., pre-concentration technique for, 4H78
- detmn. of 4-nitrophenol metabolites of, in blood and urine, by h.p.l.c., 11D113
- , **amino**, detection of, in biological materials, by t.l.c. and g.l.c., 3D87
- Parathion-methyl**, detmn. of, in waters, by g.c., pre-concentration technique for, 4H78
- Parathyroid hormone**, detmn. of, in biological materials, by h.p.l.c., 2D183
- in serum, enzymic, 5D195
- Parbendazole**, identn. of, X-ray powder diffraction data for, 8E84
- Paromomycin**, detmn. of, in blood, milk or urine, by pptn. and spectrophotometry, 8E37
- Particle size analysis**, aerodynamic instruments for, 10J150
- apparatus for, 6J190
- by electrical birefringence, 2J130
- by laser-photon-correlation spectrometry, 8J134
- by measurement of forward-scattered light, 2J127
- by scanning electron microscopy, sample preparation in, 5J193
- by sedimentation field-flow fractionation, 2J125, 6J192
- Coulter counter in, standardization of, review, 12J177
- counting in, instruments for, 12H10
- disc centrifuge in, 4J178
- distribution, linear inversion in calculation of, from measurements with differential mobility analyser, 11A31
- electrical sensing zone and image analysis techniques in, 12J179
- electrostatic separator and sizer for, 6J191
- gravitational liquid sedimentation methods for powders and suspensions in, 9J146
- high-resolution electrical mobility aerosol spectrometer for, 10J152
- hydrodynamic and size-exclusion chromatography in, review, 3J32
- image-analysis system for, 2J129
- in industrial suspensions, 10J149
- instruments for, 11J148
- light-scattering, improved accuracy by using dual detectors in, 9J147
- mean particle diameters in, nomenclature for, 12J176
- of aerosols, by electrostatic classifier, 10J151
- Particle Measuring Systems active-scattering-aerosol spectrometer probe in, 11J149
- of air-borne particulates, review, 7H7
- of atmospheric particles, from Hi-Vol data, 1H5
- of beer solids, with Coulter counter, 12F33
- of powders, suspensions and emulsions, 2J126
- of rubber latices, 3J122
- of soil, dry- and wet-sifting for, 9G8
- of uranyl fluoride, by Coulter counter, 12J178
- standards for, review, 12J175
- ultramicroscope for, size distribution of non-aggregating and aggregating dispersions by, 2J128
- Patulin**, detmn. of, in apples and pears and their juices and jams, by t.l.c., 8F44
- in foods, by h.p.l.c., review, 10F12
- in fruit juices and fruit, by h.p.l.c., 4F51
- in fruit products, by t.l.c., 7F69

Patulin, detmn. of,—continued

- in mouldy food, by t.l.c., 5F6
- Peaches**, detection of pesticides on, by g.c. with two detectors, 8A12
- detmn. of 5-hydroxytryptamine in, by spectrofluorimetry and t.l.c., 8F45
- Peanut butter**, detmn. of acrylonitrile in, by g.l.c., 4F37
- detmn. of aflatoxins in, by h.p.l.c., 12F24
- Peanut meal**, detmn. of aflatoxins in, evaluation of standard methods for, 10F7
- Peanut oil**, detection of rancidity of, methods for, 5F56
- detmn. of aflatoxins in, by column chromatography - t.l.c., 2G2
- detmn. of PAH in, by t.l.c., 10F71
- detmn. of triglycerides in, by h.p.l.c. - m.s., 4F75
- by reversed-phase h.p.l.c. - m.s., 9F54
- detmn. of tritoyl phosphate in, colorimetric, 10F70
- sepn. of phospholipids of, by t.l.c., Iatroscan - Chromarod method in, 2F41
- Peanut products**, detmn. of aflatoxins in, by h.p.l.c. and high-performance t.l.c., 12F25
- Peanuts**, detection of aflatoxins B₁ and B₂ in, by g.c. - m.s., 11G5
- detmn. of aflatoxins in, by t.l.c., 4G8
- detmn. of citrinin in, fluorimetric, 10F9
- detmn. of fibre components in, 4F50
- detmn. of pesticides in, by t.l.c., 6F16
- by t.l.c. or g.l.c., 9F11
- extraction of aflatoxins from, optimization of, 10F8
- Pear juice**, detmn. of patulin, citrinin and aflatoxins in, by t.l.c., 8F44
- Pears**, detmn. of organophosphorus insecticides in, automated enzymic, 2F35
- detmn. of patulin, citrinin and aflatoxins in, by t.l.c., 8F44
- Peas**, detmn. of dietary fibre in, 6F4
- detmn. of peroxidation of lipids in, by g.l.c. of TMS derivatives, 10F52
- Peat**, detmn. of nitrogen in, automated, 8C4
- Pectin**, detmn. of, in tobacco, 1D79
- Pectinase**, detection of, by isoelectric focusing or electrophoresis, visualization method for, 9D245
- Pemoline**, detmn. of, in urine, by g.l.c. - e.c.d., 2D49
- Penbutolol**, detmn. of, in plasma and urine, by h.p.l.c., 12D89
- , **4-hydroxy**-, detmn. of, in plasma and urine, by h.p.l.c., 12D89
- Penicillamine**, detmn. of, by h.p.l.c., reagent for post-column reaction in, 11D116
- in blood, by h.p.l.c., 2D114
- in plasma, by h.p.l.c. after derivatization, 2D113
- sepn. of, by liquid chromatography, 4D227
- stripping voltammetry of, at mercury electrode, 3D150
- Penicillic acid**, detmn. of, in mouldy food, by t.l.c., 5F6
- Penicillin**, **benzathine phenoxymethyl**-, detmn. of, in pharmaceutical preparations, by polarimetry, 6E25
- , **benzyl**-, detection of, in milk, by t.l.c., 6F51
- detmn. of, in beef, kidney and liver, *Bacillus stearothermophilus* in microbiological, 8F26
- in fermentation broths, by h.p.l.c., 7E11
- in injection soln. and tablets, by spectrophotometry with cupric acetate, 4E23
- in milk, by h.p.l.c., 1F14
- in pharmaceutical preparations, by polarimetry, 6E25
- in serum, by h.p.l.c., 9D46
- identn. of oligomers formed during storage of, by gel-filtration chromatography, 12E24
- , **p-hydroxyphenoxymethyl**-, detmn. of, in fermentation broths, by h.p.l.c., 3E16
- , **phenoxymethyl**-, detmn. of, by h.p.l.c., 2E18
- in fermentation broths, by h.p.l.c., 3E16, 7E11
- in milk, by h.p.l.c., 1F14
- in urine, by t.l.c. and spectrophotometry, 8D38
- , **potassium**, detmn. of, by FT i.r. internal-reflection spectrophotometry, 8E29
- Penicillinase**, assay of, by n.m.r., 5D243
- Penicillin K**, detmn. of, in fermentation broths, by h.p.l.c., 7E11
- Penicillins**, detmn. of, by automated flow-injection analysis with enzyme thermistor detector, 10E19
- in fermentation broths, by h.p.l.c., 7E11
- detmn. of cephalosporins in, spectrophotometric, 6E26
- detmn. of controlled-release, by h.p.l.c., 11E14
- identn. of, by reversed-phase h.p.l.c., 12E23
- Penicillin X**, detmn. of, in fermentation broths, by h.p.l.c., 7E11
- Penicillium vermiculatum**, detmn. of vermiculin in cultures of, by h.p.l.c. and t.l.c., 4E27
- Pentacaine**, extraction of, from biological material, 11D85
- sepn. of, from biological fluids, by adsorption on C₁₈ silica gel, 10D97
- Pentaerythritol**, detmn. of, in alkylid resins, by g.c., 3C70
- Pentaerythritol tetra-(3,5-di-t-butyl-4-hydroxyhydrocinnamate)**, detmn. of, in polyethylene, by g.l.c., 8F14
- Pentaerythritol tetranitrate**, detmn. of, in plasma, by h.p.l.c., 6D112
- Pentane**, detmn. of, in methyloxiran polyethers, by g.l.c., 2C70
- sepn. of, from other hydrocarbons, by g.s.c., column packing for, 4J69
- Pentanoic acid**, detmn. of, by g.c., 3C14
- by h.p.l.c., electrokinetic detector for, 4C18
- by h.p.l.c. with electrokinetic detection, 4C19
- in air, by g.l.c., stationary phases for, 8H23

Pentanoic acid, detmn. of,—*continued*

- in presence of other acids, by g.l.c., 8D115
- in waste water, by g.l.c., 3H77
- , 4,5-dioxo-, detmn. of, by isotachopheresis, 3D215
- , 2-oxo-, detmn. of, in plasma and urine, 4D162
- Pentazocine**, identn. of, with tripeleminine, by h.p.l.c., 7E23
- Pent-1-ene**, carbon-13 n.m.r. of, 2C6
- Pentobarbitone**, detmn. of, by potentiometric titration with mercury, 4E36
 - in plasma, by g.l.c., 3D45
 - by h.p.l.c., 7D57
 - in serum, by EMIT, 6D75
 - by EMIT immunoassay, 6D74
 - by enzyme immunoassay, 11D64
 - by fluorescence polarization immunoassay, 9D58
 - by h.p.l.c., 1D47
- , 3'-hydroxy-, detmn. of, in serum, by h.p.l.c., 2D60
- Pentosalen**, detmn. of, in angelica root, by t.l.c. - spectrophotometry, 5E21
- Pentoses**, detmn. of, in wood, in presence of glucose, orcinol in spectrophotometric, 3C63
- Pentoxyl**, detmn. of, absorptiometric, 11E52
- Pepper**, detmn. of adulteration of black, by papaya seed, 5F41
 - detmn. of piperine in, by h.p.l.c., 2F38
 - detmn. of piperine in black and white, by t.l.c., 12F29
- Pepperbush**, detmn. of arsenic in, by a.a.s., 2B60
 - detmn. of copper in, by spectrophotometry, 2B11
- Peppermint**, detmn. of carbofuran and 3-hydroxycarbofuran in, 1G20
 - detmn. of carbofuran metabolites in, by multiple-ion detection m.s., 1G19
- Peppers**, detmn. of capsaicinoids in red, by h.p.l.c., 6F63
 - detmn. of iron, copper, manganese and zinc in green and red, by a.a.s., 12F27
- Pepsin**, assay of, substrates for, 3D265
 - synthesis of substrate for, 11D255
- Pepsin A**, assay of, in gastric juice, with azocoll as substrate, 12D239
 - substrates for, 3D265
- Peptides**, analysis of, by fast-atom-bombardment m.s., 4D232
 - by high-field n.m.r., review, 11A8
 - by h.p.l.c. - m.s., 7J37
 - by secondary-ion m.s., 11J115
- detection of, by h.p.l.c., reagents for, 3D160
 - by iodination, reagents for, review, 10D177
 - by isoelectric focusing with immunostaining, 3D164
 - by liquid chromatography - m.s., interface for, 7J71
- detection of imino-, in urine, by isotachopheresis, 8D174
- detection of Phe-Met-Arg-Phe-amide-like immunoreactive, in rat brain, by r.i.a., 2D189
- detection of prolyl-containing and amide-blocked, by h.p.l.c., 3D161
- detmn. of, by electrophoresis, staining in, 4D238
 - by h.p.l.c. with electrochemical detection, 3D165
 - by ring - disc electrochemical titration with bromine or hypobromite, 11D191
 - in foods, by h.p.l.c., 7F43
 - in tissues, by field-desorption m.s., 3D166
 - in tryptic hydrolysates of milk or milk products, by h.p.l.c., 11F21
 - review, 9D192
- detmn. of anionic and cationic impurities in, by capillary isotachopheresis, 11D180
- detmn. of disulphide bonds in, 11D196
- detmn. of gastrointestinal, by r.i.a., review, 10D179
- detmn. of hormonal, in pharmaceutical preparations, 9A2B
- detmn. of N-terminal amino-acids in, by h.p.l.c. of dansyl derivatives, 10D176
- detmn. of opioid, in rat brain and pituitary, by r.i.a., 10D181
- detmn. of purity of opioid, by t.l.c., 6D229
- detmn. of N-trinitrophenyl-derivatives of, by h.p.l.c., 6D217
- extraction of hormonal, from plasma, by filtration through Sep-Pak C₁₈, apparatus for, 12D11
- h.p.l.c. and m.s. of neuro-, review, 11D181
- h.p.l.c. of, 11A2B
- identn. of, by mixed-gas chemical-ionization m.s., 6D227
 - in pituitary and brain, by h.p.l.c., 3D159
- isolation of tryptophan-containing, from protein digests, 5D185
- molecular secondary-ion m.s. of, 3J90
- potassium-ion chemical-ionization m.s. of, 12J123
- sepn. of, by discontinuous electrophoresis on polyacrylamide gels, 4D236
 - by electrophoresis, 5D186
 - gel for, 4D247
 - by high-performance gel-permeation chromatography, 1D160
 - by h.p.l.c., 3D162, 11D182
 - effect of hydrophobic mobile-phase additives in, 8D163
 - effect of pH on, 11D184
 - effect of variations in mobile phase on, 3D157
 - review, 5D1, 6D201, 7D181
 - stationary phases for, 6J35
 - by h.p.l.c. on "end-capped" octylsilica, 7D180
 - by h.p.l.c. on polystyrene - divinylbenzene resin, 12D179
 - by t.l.c., adsorbents for, 4D219

Peptides, sepn. of,—*continued*

- from phosphate, by gel-permeation chromatography, 12D177
- in pituitary, by h.p.l.c., 3D168
- in protein digest, by h.p.l.c., 2D184
- in tissues, by h.p.l.c., 8D180
- sepn. of chymotryptic, by iodine-125 peptide mapping and h.p.l.c., 3D207
- sepn. of dermorphin-related oligo-, by reversed-phase t.l.c., 12E16
- sepn. of diastereoisomers of, by t.l.c., 2D186
- sepn. of β -endorphin-related, by liquid chromatography, 9D195
- sepn. of free and blocked amino-terminal, from protein digest, by column chromatography, 4D248
- sepn. of glyco-, by h.p.l.c. of dansyl derivatives, 3D211
- sepn. of methylated derivatives of, by h.p.l.c. - m.s., 8D175
- sepn. of neuro-, by h.p.l.c., 11D183
- sequence studies of, by h.p.l.c. of dansyl derivatives of amino-acids, 5D179
- , di-, detmn. of, in peptide mixtures, by biuret reaction, 5D184
- Peracetic acid**, detmn. of, titrimetric, 10C20
- Perazine**, detmn. of, in tablets, chloramine T in spectrophotometric, 1E22
 - t.l.c. of, and its metabolites, 10E27
- Perchlorate**, detmn. of, bathoferroine in ion-pair extraction - spectrophotometric, 11B119
 - C. I. Azoic Diazo Component 35 in spectrophotometric, 1B110
 - ion-selective electrode for, 6J178
- Perchlorates**, drying procedures for solvated, 7A24
- Perfumes**, detmn. of 5-methoxypsoralen and limettin in, by h.p.l.c., 7C81
- Pergolide**, detmn. of, in biological materials, by h.p.l.c. with electrochemical detection, 5D57
- Pericardial fluid**, assay of creatine kinase isoenzymes in, by spectrophotometry, 1D203
- Periodate**, detmn. of, 1,5-dihydroxyflavone in photochemical titrimetric, 3B21
 - in presence of iodate, titrimetric, 12B131
 - iron^{II} and ferrocyanide in spectrophotometric, 10B133
- Permanganate**, detection of, ion-selective electrode for, 4J168
- Permethrin**, detmn. of, in air, by g.c. and t.l.c., 10H38
 - in fruit and vegetables, by g.l.c., 2F32
 - in grain, by g.l.c. - e.c.d., 7G37
 - in spray formulations, by h.p.l.c., 12G17
 - in tomatoes and leaves, by t.l.c., 2G24
 - review, 11G40
- Peroxidase**, assay of, fluorimetric rate, 8D229
 - in horse-radish, by enzyme immunoassay, 11D230
 - in polymorphonuclear neutrophils, cytochemical, 4D297
 - in tissues, interference in guaiacol test for, 12D226
- assay of horse-radish, by ELISA, *o*-dianisidine and *o*-phenylenediamine as chromogens in, 8D234
- improved ELISA technique for, 8D235
- detection of isoenzymes of, by electrophoresis, 9D247
 - by gel electrophoresis, in presence of acid phosphatase isoenzymes, 11D231
- Peroxide, benzoyl**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 8E80
- , *t*-butyl-, detmn. of, by carbon-13 n.m.r., 7C15
- Peroxides, ketone**, detmn. of, by spectrophotometry, cobalt in, 4C9
- , organic, analysis of, combustion method for, 10C7
 - detmn. of, spectrophotometric, 7B21
- Peroxide value**, measurement of, titrimetric, 8C5
- Peroxyacetyl nitrate**, detmn. of, in air, by g.c., 3H25
 - by g.l.c., preparation of calibration mixture for, 9H29
 - generator for calibrating analysers for, 12J3
- Peroxydicarbonate, bis-(2-ethylhexyl)**, detmn. of, by h.p.l.c., 3C7
- Perphenazine**, detmn. of, by anodic voltammetry, 10E24
 - ferricyanide in titrimetric, 11E26
 - t.l.c. of, and its metabolites, 10E27
- Per-rhenate**, detmn. of, bathoferroine in ion-pair extraction - spectrophotometric, 11B119
 - ion-selective electrode in, 3J108
 - identn. of, by paper chromatography, 11B15
- Persimmon**, detmn. of tannins in juice of, by refractometry, 6F58
- Personal care products**, detmn. of 5-bromo-5-nitro-1,3-dioxan in, by chromatography and spectrometry, 5C92
- Persulphate**, detmn. of, by iodimetry in presence of poly(vinylpyrrolidone), 5B190
 - in presence of sulphate, by capillary isotachopheresis, 1B98
 - iron^{II} and ferrocyanide in spectrophotometric, 10B133
- Perylene**, detection of, by synchronous fluorescence, silicon-intensified target vidicon in, 3J82
 - detmn. of, by fluorimetry, instrument for, 8J97
 - by h.p.l.c., fluorescence detector for, 12J37
- Pesticides**, detection of, by g.l.c., 4G28
 - in food, by two-column g.c., 6F14
 - in fruit and vegetables, by g.l.c., 3F6
 - on peaches, by g.c. with two detectors, 8A12
- detmn. of, by g.c., polar glass-capillary column for, 2G18
 - by g.c. and t.l.c. after pre-concentration on Tenax-GC, 8H4
 - by g.l.c., review, 11G24
 - in air, by liquid carbon dioxide extraction - g.c. - m.s., 9H32
 - in beef fat, by Likens-Nickerson extraction - capillary g.c., 9G17

Pesticides, detmn. of.—continued

- in citrus fruits, 8F43
- in environmental materials, by g.c. - m.s., 4H5
- by g.l.c. as pentafluorobenzyl derivatives, 2H3
- in fatty foods, by t.l.c., 6F16
- in fish, by g.l.c., 2F19
- confectionery or pickles, by g.c., 4F9
- in food, by automated g.l.c., 6F15
- by g.c., 7J65
- in fruit and vegetables, by g.c., 9G16
- by g.l.c. and h.p.l.c., 12G6
- in fruits, by g.l.c., 2F33
- in grain, by g.l.c. and h.p.l.c., 7G33
- in non-fatty foods, automated solvent-partitioning system for, 10F15
- in sugar-factory products, purification of extracts for, 4F15
- in tobacco smoke, by t.l.c., 5D112
- detmn. of bromide in crops as residue of, by ion-selective electrode, 11G39
- detmn. of imidazolidine-2-thione and 2,3,7,8-tetrachlorodibenzo-p-dioxin in, by g.c., 4G29
- detmn. of impurities in, by chromatography, 1G11
- detmn. of polychlorinated dioxins and furans in, by isomer-specific techniques, review, 11H3
- detmn. of pyrethroid, review, 11G40
- detmn. of residues of, in fish, by g.l.c., nitro-musk fragrances as contaminants in, 12G7
- in plant material, inter-laboratory, 11G25
- extraction of, from environmental materials, by steam-distillation, 10G18
- from textiles, 8C80
- g.c. of, on capillary columns, retention ratios for, 10G17
- sampling of, for g.l.c., from aerosol canisters, 11G34
- sepn. of, from lipids, alumina-blending method for, 12F39
- sepn. of tertiary amine-containing, by paper chromatography, 8G10
- thermal desorption of, from Tenax-GC, 6H35
- **arylamide**, detmn. of, in water, soil, plants and crops, 11H71
- **carbamate**, detmn. of, by h.p.l.c. with post-column reaction, 7G36
- by low-temp. phosphorimetry, 7G25
- in fruit and vegetables, by g.c. - a.a.s., 3G18
- sepn. of, by h.p.l.c., 6G27
- **organochlorine**, detection of, by t.l.c., 3,3',5,5'-tetramethylbenzidine as spray reagent for, 9G24
- detmn. of, by g.c. - e.c.d., 12J65
- by t.l.c., 2G17
- in avian tissues, by g.l.c., 6D144
- in edible fats, clean-up method for, 5F33
- in foods, 7F71
- by t.l.c. or g.l.c., 9F11
- in fruit and vegetables, by g.l.c., clean-up procedure for, 4F49
- in milk, by g.l.c., 4F39
- by g.l.c. with e.c.d., 7F52
- in poultry fat, by g.c., 12F17
- in semen, by g.c., 4D143
- in sewage and sewage sludge, by g.c. - m.s., 7H76
- in soil, sediments and water, by g.c. - m.s., 8G11
- water, oil and sediment, by capillary-column g.c., 11G36
- in tissues, fat and blood, by g.c., 10D112
- in underground water, by concentration - g.l.c., 10H85
- detmn. of cyclodiene-type, by h.p.l.c. and radioactivity flow detectors, 11G35
- detmn. of residues of, in biota, by g.l.c., 12D108
- sepn. of, from fats, by sweep co-distillation, 12F40
- **organohalogen**, identn. of, in vegetable oil by-products, by g.c., 10F74
- **organophosphorus**, detection of, by g.c., effect of column temp. on, 1G17
- in waters, 1H38
- detmn. of, by g.l.c., 11G37
- by spectrophotometry, 2G28
- by t.l.c., 2G17
- in apples and pears, automated enzymic, 2F35
- in foods, by t.l.c. or g.l.c., 9F11
- in fruit and vegetables, by g.l.c., clean-up procedure for, 4F49
- in pond water, by g.l.c., 9A6B
- in urine, by g.l.c., 3D86
- in vegetables, automated, 5F39
- detmn. of contaminants in, by phosphorus-31 n.m.r., 1G16
- **organothiophosphorus**, detmn. of, in fruit and vegetables, by g.l.c., 10G25
- **thiocarbamate**, sepn. of, by h.p.l.c., 10G27
- Pethidine**, detmn. of, in pharmaceutical products, by h.p.l.c., 2E25
- Petroleum**, analysis of, by g.l.c., microcomputer in data evaluation in, 4J81
- by n.m.r., symposium, 1A1B
- by proton FT n.m.r., 6J156
- diode-array detectors in, 11C43
- instrumental techniques for, review, 12C43
- analysis of crude, by m.s., 2C43
- with and without distillation, review, 9C47
- analysis of distillation residues of, by g.c., 12C47
- analysis of light, thickly coated open-tubular columns in g.l.c., 4J72

Petroleum—continued

- analysis of naphthalene fraction of post-pyrolytic, by g.c., 2C45
- characterization of, by g.l.c., 6C33
- characterization of C₇ to C₄₀ fraction in, by simulated distillation - g.c., 7C57
- characterization of residues from, by h.p.l.c., 7C61
- detmn. of, in air, grab-sampling technique for, 12H34, 12H35
- in edible fats and oils, by t.l.c., 10F66
- in water and waste water, by solvent extraction, i.r. spectrometry and gravimetry, 6H90
- detmn. of acid and base numbers of, by potentiometric titration, 9C57
- detmn. of ammonium ion in, by Berthelot reaction, review, 12B101
- detmn. of aromatic and polar compounds in distillates of, by h.p.l.c., 1C29
- detmn. of arsenic in, by anodic-stripping voltammetry, 9C50
- detmn. of cadmium in, by a.a.s. after dry-ashing, 11C33
- detmn. of carbazole derivatives in, by capillary-column g.c., 9C41
- detmn. of crude, in water, by loss of internal reflection in optical fibre, 2H57
- detmn. of dibenzothiophene in crude, reference standard for, 8C51
- detmn. of dimethylnaphthalenes in crude, by t.l.c. - g.c., 3C44
- detmn. of hetero-atom compounds in, by m.s., 8C53
- detmn. of major hydrocarbons of, by g.c., 11C34
- detmn. of malthenes and asphaltenes in, by t.l.c. on Chromarods, 1C22
- detmn. of metals in crude, review, 4C52
- detmn. of methanol and sodium tetrahydroborate in, by g.l.c., 4C84
- detmn. of nitrogen and oxygen in non-volatile fractions of, review, 12C45
- detmn. of PAH in, 11D260B
- detmn. of PAH in crude, by h.p.l.c., 3C43, 11H68
- detmn. of phenols in crude, by h.p.l.c., 2C50
- detmn. of pollutants derived from, in water, sampling for i.r., 10H65
- detmn. of residual, in oilseeds, by g.c., 5G22
- detmn. of sulphur in, by X-ray absorption spectrometry, 5C65
- XRF analyser for, 8C49
- detmn. of thiols in crude, by g.c., 3C46
- detmn. of total nitrogen in, by micro-coulometry, 9C45
- detmn. of trace, in waste water, by fluorimetry, automated system for, 5H93
- detmn. of trace elements in Nigerian crude, by n.a.a., 6C37
- detmn. of trace metals in crude, by a.a.s., 8C52
- review, 7C55
- fractionation of distillation residues of, by ion-exchange chromatography with stepwise elution, 10C54
- identn. of aza-arenes in crude, by capillary g.c. - m.s., 11C36
- identn. of marine natural seepage and pollutant, by i.r. spectrophotometry, 5H77
- identn. of monomethylated PAH in crude, by liquid chromatography - fluorimetry, 6C36
- identn. of source of crude, by g.c. - m.s., 10C53
- identn. of spilled crude, by gel-permeation chromatography, 9C46
- identn. of spills of, in sea-water, system for, 6H91
- identn. of vanadylporphyrins in crude, by liquid chromatography - a.a.s., 12C44
- sepn. of high-boiling components of, by chromatographic distillation, 7C56
- sepn. of mono-, di- and tri-cyclic aromatic hydrocarbons in, chromatographic, 11C41
- sepn. of nitrogen bases in crude, by column chromatography, 4C51
- simulated distillation of, by g.c., 3J68
- structural analysis of crude, carbon-13 n.m.r. spin - lattice relaxation times in, 12C42
- Petroleum products**, analysis of, by n.m.r., 4C61
- by XRF, 2C41
- analysis of hydrocarbon groups in, by h.p.l.c., 7C52
- detmn. of, in water, spectrophotometric, 8H94
- detmn. of dibenzothiophene in, reference standard for, 8C51
- detmn. of lithium, sodium and zinc in, by a.a.s., 4C59
- detmn. of PAH in, by chromatography, 2C39
- detmn. of sulphur in, by n.a.a., 5C66
- by X-ray absorption spectrometry, 5C65
- detmn. of water in, by a.t.r. i.r. spectrometry, 2C40
- identn. of, in contaminated environments, by i.r. spectrophotometry, 7H56
- identn. of organic sulphides in, by i.r. spectrometry, 9C60
- mineral oil, detmn. of, in edible oil, by t.l.c., 5F54
- sepn. of nitrogen bases in, by column chromatography, 4C51
- structural analysis of, carbon-13 n.m.r. spin - lattice relaxation times in, 12C42
- Petroleum reformate**, analysis of, microprocessor in g.c., 5C67
- pH**, control of, microprocessor-controlled coulostat for, 2J108
- measurement of, fibre-optic device for, 2D11
- fibre-optic device with immobilized chemical reagents for, 7J118
- in blood, by potentiometry, 1D9
- integrated-circuit sensor in, 8D18
- temp. correction in, review, 6D27
- in fresh water, flow-cell system for, 6H55
- in meat, 5F19
- iridium - iridium oxide electrode for, 10J131
- of blood, temp.-insensitivity of non-aqueous controls in, 4D53, 4D54

pH, measurement of, —continued

- of industrial water, 9H36
- of moist soil, flat-surface combination electrode for, 11G9
- of river water, monitoring and telemetry system for, 10H40
- of soft-water lakes, with pH electrode, 10H46
- of soil, flow-injection system for, 3G4
- of urine, with test strips, review, 1D2
- primary standardization in various solvents in, 9J124
- tetracyanoquinodimethan - platinum electrodes for, metal substratum effects in, 10J130
- with glass electrodes, calibration in, 5J162, 5J163
- effects of bivalent cations on, 3J101
- measurement of drop in, extent of protein hydrolysis from, 6F3
- Phacophorbidites**, detmn. of, in rocks, by h.p.l.c., 6D268
- Phacophytins**, detmn. of, in beans, by t.l.c. and fluorimetry, 7F76
- in maize leaves, by t.l.c. - derivative spectrophotometry, 9D224
- in rocks, by h.p.l.c., 6D268
- sepn. of, by h.p.l.c., 10D216
- Pharmaceutical analysis**, applications of bioluminescence and chemiluminescence in, review, 11D1
- automated system for dissolution in, 1J15
- automation of, review, 1J13
- by d.t.a. and differential scanning calorimetry, review, 6E1
- by h.p.l.c., 3E1
- by liquid chromatography on graphitized carbon black, with liquid modifiers, 6J36
- by spectrophotometry, 6J123
- californium-252 fission-fragment-induced desorption m.s. in, 3J94
- development of, review, 10E1
- fast-atom-bombardment and field-desorption m.s. in, 1J92
- g.c. head-space analysis in, review, 5J49
- h.p.l.c. for, 5E2
- ion-selective electrodes in, review, 2D1
- metal complexes of sulphanilamides in, review, 10E2
- microcomputers in, review, 6A8
- near-i.r. reflectance spectrometry in, 5J116
- potentiometric titration in, for detmn. of amino-compounds, 2E1
- sample preparation - spectrophotometric system for, 12E4
- stability testing in, by t.l.c., reversed-phase bonded silica for, 3E33
- standard methods in, computer program for evaluation of, 10E4
- t.l.c. in, review, 12J50
- Pharmaceutical preparations**, analysis of, by i.r. spectrophotometry, 4J136
- effect of segregation during grinding on, 8E4
- quality control in, 1E44B
- analysis of Ayurvedic, 1E14
- automated analysis of, 1E4
- detmn. of aluminium in, by a.a.s., 5E58
- detmn. of ammonium ion in, by Berthelot reaction, review, 12B101
- detmn. of aromatic amines in, metol - iodine in spectrophotometric, 11C22
- detmn. of ascorbic acid in, by a.a.s., 4E32
- chloranil in titrimetric, 12E34
- spectrophotometric, 11E18
- detmn. of cephalosporins and tetracyclins in, by spectrophotometry, ammonium vanadate in, 4E26
- detmn. of chlorhexidine in, by g.l.c., 4E52
- detmn. of content uniformity of solid, automated, 5E3
- detmn. of drugs in, by t.l.c., screening procedure for, 4E7
- detmn. of ethambutol, ethionamide and rifampicin in, by ion-pair extraction - spectrophotometry, 4E58
- detmn. of flunitrazepam in ampoules and tablets, differential pulse polarographic, 3E26
- detmn. of hydroxybenzoates in antacid, by g.l.c., 11E56
- detmn. of organic bases in, spectrophotometric, 2E4
- detmn. of organic iodine in, by potentiometric titration, 1E17
- detmn. of paeoniflorin in, by t.l.c., 5E15
- detmn. of plant hydrocolloids in, by ion-exchange chromatography - spectrophotometry, 8E92
- detmn. of polyoxyethylene glycol in protein-containing, by laser nephelometry, 6E64
- detmn. of radioactive halides in, by h.p.l.c., 6E5
- detmn. of retinoic acid isomers in cream and gel, by t.l.c., 3E18
- detmn. of rutin in, by n.m.r., 3E13
- detmn. of saccharin in, by spectrophotometry, 3F23
- detmn. of sodium bicarbonate and citrate in antacid, titrimetric, 2E52
- detmn. of sodium salts of organic acids in thermometric titrimetric, 12E7
- detmn. of thiamine in, by h.p.l.c., 5E29
- detmn. of triamterene and hydrochlorothiazide in tablets, h.p.l.c., 3E48
- detmn. of water in, by microwave spectrometry, 4E6
- injection soln., optical evaluation of purity of, 6E3
- stability testing of niclosamide and vanillin in, by t.l.c. and d.t.a., 3E41
- Phaseic acid**, detmn. of, in plants, by h.p.l.c., 3G15
- , dihydro-, detmn. of, in plants, by h.p.l.c., 3G15
- Phaseolus vulgaris**, detmn. of abscisic acid in, by r.i.a., 10D130
- Phase-sensitive detection**, digital device for, 1J1
- Phenacetin**, assessment of purity of, by differential scanning calorimetry, 1J122

Phenacetin—continued

- detection of, in horse urine, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
- detmn. of, by differential scanning calorimetry, 5E30
- in biological fluids, by h.p.l.c., 6D89
- in blood and urine, 7D37
- in pharmaceutical preparations, by h.p.l.c., 4E33
- iodimetric, 6E44
- detmn. of impurities in, by differential scanning calorimetry, 1E19
- detmn. of moisture in, by reflectance, 8E55
- sepn. of, from aspirin and caffeine, by micro h.p.l.c., 10J18
- t.l.c. of, structure in relation to, 2E26
- Phenanthrene**, detection of, by resonance Raman spectrometry, 12C35
- detmn. of, in vegetable oils, by t.l.c., 10F71
- sampling of, in air, apparatus for, 4H21
- sepn. of, by h.p.l.c., 5C1
- study of interactions of, with substrates, by i.r. and reflectance spectrometry, 3C40
- Phenanthrene derivatives, amino-**, detection of isomers of, by g.l.c. - e.c.d. and g.l.c. - m.s., 8C44
- Phenazone**, detmn. of, by spectrophotometry, *N*-bromosuccinamide in, 4E39
- in plasma, pptn. of proteins in, 6D90
- with its metabolites, in biological fluids, by automated h.p.l.c., 7D62
- sepn. of, by two-dimensional t.l.c., 11J45
- , 4-(methylamino)-, detmn. of, in biological fluids, by h.p.l.c., 6D84
- Phenazone derivatives**, detmn. of, by spectrophotometry, *N*-bromosuccinamide in, 4E39
- Phencyclidine**, chromatographic and spectrometric study of aryl-substituted analogues of, 5E34
- detmn. of, and its metabolites, in biological materials, review, 9D62
- by h.p.l.c., 2E5
- in plasma, by h.p.l.c., 2D72
- in urine and blood plasma, by g.l.c., 4D97
- with its metabolites, in urine, by g.l.c., 10D88
- identn. of, by chromatography, 4E41
- Phendimetrazine**, identn. of, in illicit preparations, microcrystalline, 12E6
- Phenethylamine**, detmn. of, after phthalaldehyde - thiol derivatization, by h.p.l.c., 7E29
- by h.p.l.c., derivatization for, 7C38
- in bacterial cultures, by g.c., 7D154
- in foods, by h.p.l.c., 2F6
- in soy sauce, by t.l.c., 7F79
- in tissues, by g.c. - m.s., 1D136
- h.p.l.c. of, effect of ionic surfactants on, 5C4
- Phenethylamine derivatives**, detmn. of, in *Mammillaria* spp., by h.p.l.c., 2E12
- p-Phenetidine**, detmn. of, by capillary g.c., 11E25
- t.l.c. of, structure in relation to, 2E26
- Pheneturide**, detmn. of, in serum, by h.p.l.c., 8D45
- Phenmedipham**, detmn. of, by g.c., after reaction with trimethylanilinium hydroxide, 1G12
- in air, by t.l.c., 11H29
- Phenmetrazine**, identn. of, in illicit preparations, microcrystalline, 12E6
- Phenobarbitone**, detmn. of, by g.c., low-adsorption-activity supports for, 3J57
- by h.p.l.c., 2E5
- by potentiometric titration with mercury, 4E36
- in biological fluids, by h.p.l.c., 5D60
- immunochemical, automated analyser for, 12J9
- in biological materials, by h.p.l.c., 10D82
- in blood, by automated fluorimetry or photometry, 4J10
- in blood plasma, by h.p.l.c., 4D87
- in pharmaceutical preparations, by g.l.c., 8E3
- in plasma, 6D77
- by capillary g.c., 2D61
- by fluorescence immunoassay, 6D78
- by g.l.c., 3D45
- by h.p.l.c., 12D74
- in saliva, for therapeutic monitoring, 10D83
- in serum, Abbott TDx system for stat, 11D38
- by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
- by fluoro-immunoassay, with centrifugal analyser, 7D42
- by homogeneous immunoprecipitation, 2D50
- by h.p.l.c., 8D45
- by liquid chromatography, 7D58
- by reversed-phase h.p.l.c., 8D47
- by semi-automated enzyme immunoassay, 4D90
- effect of storage on, 10D81
- rate-nephelometric, 6D79
- in serum and plasma, by fluoro-immunoassay, simultaneously with phenytoin, 1D48
- extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
- Phenol**, detmn. of, and its conjugates, in urine, by h.p.l.c., 8D95
- by cerimetry, 4E3
- by controlled-potential pulsed-current potentiometric titration, 11J145
- by flow-injection analysis - voltammetry, 2C28
- by iodimetric titrimetry, 11C18
- in air, by g.c., 9H30

Phenol, detmn. of,—*continued*

- in honey and beeswax, 9F20
- in natural waters, by g.l.c., pre-concentration for, 5H81
- in pharmaceutical preparations, 11E32
- in phenacetin, by differential scanning calorimetry, 1E19
- in waste water, by colorimetry, 3H79
- by derivative spectrophotometry, 1H2
- in whole blood, by g.l.c., 1D74
- iodine bromide in spectrophotometric, 10C34
- **amino**-, detmn. of, coupling agent for spectrophotometric, 3C32
- **2-amino**-, detmn. of, spectrophotometric, 12C27
- **3-amino**-, detmn. of, in aminosaliclate drugs, by densitometry after t.l.c., 8E49
- in hair dyes, by h.p.l.c., 5C91
- **4-amino**-, detmn. of, in aq. soln., by potentiometric titration, 4C36
- in hair dyes, by h.p.l.c., 5C91
- in pharmaceutical preparations, by h.p.l.c., 11E24
- spectrophotometric, 12C27
- **dichloro**-, sepn. of isomers of, by g.l.c., 6C18
- **2,4-dichloro**-, extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
- **2,4-dinitro**-, detmn. of, in tissues, by g.c. - m.s., 2D120
- extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
- **4-nitro**-, detection of, by pre-resonance Raman spectrometry, 9C33
- detmn. of glucuronide and sulphate of, in blood and urine, by h.p.l.c., after poisoning by parathion, 11D113
- **nonachloro-2-phenoxy**-, detmn. of, in liver, muscle or fat of chicken, by g.l.c., 4F30
- **octachloro-2-phenoxy**-, detmn. of, in liver, muscle or fat of chicken, by g.l.c., 4F30
- **pentachloro**-, detmn. of, in gelatin, by g.c., 12F9
- in natural waters, by derivative spectrophotometry, 1H2
- in potable water and urine, by h.p.l.c., 11H70
- in timber and formulations, by colorimetry or g.l.c., 6C50
- extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
- **2-phenyl**-, detmn. of, in citrus fruits, 8F43
- **4,4'-sulphonylbis**-, analysis of crude, by gel-permeation chromatography, 7C88
- **t-butyl-4-methoxy**-, detmn. of, by differential pulse voltammetry, 5F10
- hydrogen peroxide and peroxidase in spectrophotometric, 10C33
- in cosmetics, by h.p.l.c., 4C74
- in edible oils, by spectrophotometry, 6C20
- in oils and fats, by g.l.c., 8F64
- in vegetable oils and margarine, by g.l.c., 8F67
- sepn. of isomers of, by h.p.l.c., 10E45
- Phenolic acids**, sepn. of, by h.p.l.c., 1G2
- in *Populus diversifolia*, by h.p.l.c., 2D134
- Phenolic compounds**, detmn. of, in natural waters, Folin - Ciocalteu phenol reagent in, 4H74
- detmn. of antimicrobial, in sugars, by h.f. l.c., 2F12
- Phenol oxidase**, assay of, in sunflower seeds, spectrophotometric, 10F5
- Phenolphthalein**, analysis of, by secondary-ion m.s., 11J15
- Phenols**, adsorption of, from drinking and waste waters, 11H60
- analysis of chlorination products of, by g.l.c. and g.c. - m.s., 12C28
- detection of, by h.p.l.c., graphite - PTFE electrodes for, 6J42
- by phosphorimetry at room temp., 2C29
- decolorized dyes for, 6C2
- in coal-derived liquids, by g.c. - m.s., 11C52
- in faeces and saliva, by g.l.c., 3D91
- in water, by g.c. after steam-distillation - extraction, 9H73
- detection of *p*-substituted, with Gibbs reagent, 12C29
- detmn. of, by g.l.c., optimized injection in, 6H3
- by liquid chromatography, 5D123
- by oxidation kinetics, 5C44
- by spectrophotometry, 6C21
- hydrogen peroxide and peroxidase in spectrophotometric, 10C33
- in car-exhaust gases, by g.l.c., 2C46
- in drinking water, by h.p.l.c., automated sample preparation and injection for, 4J19
- in environmental materials, 9H3
- by g.l.c. as pentafluorobenzyl derivatives, 2H3
- in fossil-fuel oils and waste water, by h.p.l.c., 2C50
- in fruit and vegetables, by g.c., 9G16
- in fruit juice, by h.p.l.c., review, 9F40
- in gasoline, spectrophotometric, 9C49
- in matured spirits, by g.l.c. as 2,4-dinitrophenyl ethers, 8F61
- by h.p.l.c., 8F62
- in municipal sludge, by h.p.l.c., 6H99
- in presence of acetophenone, by liquid chromatography, 5D121
- in sea-water, by fluorimetry, 4H73
- in soil, avoidance of errors in, 7G15
- by h.p.l.c., 9G9
- in soya-bean and rapeseed flours, by multiple solvent extraction and g.l.c., 8G2
- in *Iphigenia* spp., by paper chromatography, 6E12
- in tissues, fat and blood, by g.c., 10D112
- in toothpaste and shampoo, by h.p.l.c., 11C57
- in urine, by g.l.c. as acetate or propionate esters, 8D97
- in waste water, by spectrophotometry, 8H100
- in water, standard soln. for, 7H67

Phenols, detmn. of, in water,—*continued*

- standard soln. for spectrophotometric, 10H79
- in waters, by h.p.l.c., pre-concentration in, 1H37
- in wine, by thermometric titrimetry, 9F49
- reagents for fluorimetric, 5A11
- detmn. of ethoxylated, by h.p.l.c., 3J29
- detmn. of polyhydric, electrode for, 2J113
- detmn. of total, in saliva root, colorimetric, 9E16
- extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
- fluorescence of, effect of micelles on, 9C6
- identn. of, by m.s., differentiation from phenoxy fatty acids, 7C23
- in air, by derivative spectrophotometry, 1H2
- negative-ion chemical-ionization m.s. of, 11C19
- recovery of, from soil, steam-distillation method for, 7G13
- sepn. of, by h.p.l.c., 3J12
- effect of micellar mobile phase on, 5C46
- electrochemical detector for, 5J40
- liquid - liquid phase systems in, 10J33
- by ligand-exchange chromatography, 6C19
- by liquid chromatography, 6D154
- by t.l.c., mobile phases for, 5C45
- electrokinetic, with micellar soln. in open capillary tubes, 8J44
- in plants, by h.p.l.c., 3D90
- polymeric resins in iron^{III} form for, 11J37
- sepn. of methylated, by t.l.c., 2J38
- sepn. of polyhydric, in grapes or wine, by t.l.c., mobile phase for, 3J47
- sepn. of substituted, by h.p.l.c., 9H74
- titration of, in 2-methoxyethanol soln., conductometric, 7C35
- **alkyl**-, detmn. of, by g.l.c., 9C26
- detmn. of ethoxylated, by h.p.l.c. with fluorimetric detection, 12H92
- extraction of monohydric, from water, capillary g.c. evaluation of, 10H80
- sepn. of ethoxylated, in surfactants, by t.l.c., 12C52
- **amino**-, detmn. of, enzyme electrode based on caeruloplasmin for, 10J144
- in hair dyes, by h.p.l.c., 7C84
- in natural waters, spectrophotometric, 5C50
- sepn. of, by t.l.c., pre-coated plates for, 3J44
- by two-dimensional t.l.c., 11J45
- **chloro**-, detection of, in water, by t.l.c., 11H62
- detmn. of, by h.p.l.c., 7D106
- by isotachopheresis, 11C10
- by oxidation kinetics, 5C44
- by ring-oven technique, 8C29
- in food packaging, by h.p.l.c., 3F9
- in sea-water, by g.c., 6H82
- in sediments, by g.l.c., 5H80
- in sewage, by g.c., 6H102
- in urine, by g.l.c. as acetate or propionate esters, 8D97
- in water, by g.c., 6H85
- detmn. of trace, by g.c. - m.s., 8C32
- sepn. of, by t.l.c., pre-coated plates for, 3J44
- polymeric resins in iron^{III} form for, 11J37
- **methyl**-, identn. of, by g.c. - m.s., i.r. and n.m.r., 8C30
- **nitro**-, detmn. of, by spectrophotometry, after extraction with dicyclohexyl-18-crown-6, 4C42
- in water, by h.p.l.c., 6H86
- in water and sediment, by h.p.l.c., 11H67
- detmn. of mono- and di-, by h.p.l.c. with potentiometric-sweep detector, 12C32
- sepn. of, by capillary h.p.l.c., 8C26
- **2-phenoxy**-, detmn. of chlorinated, by g.c., 11C17
- **polychloro**-, sepn. of isomers of, by g.l.c., 11C15
- **polyhydric**-, identn. of, in water, by t.l.c., 11H61
- sepn. of, by capillary g.l.c., 4C38
- Phenothiazine derivatives**, detection of, and their metabolites, in urine, by g.c. - m.s., 11D73
- detmn. of, ferricyanide in titrimetric, 11E26
- in dosage forms, by synchronous luminescence spectrometry, 6E52
- in formulations, by h.p.l.c. with post-column reaction detection, 4E12
- in pharmaceutical preparations, sodium cobaltinitrite in spectrophotometric, 11E3
- in technical drugs and formulations, by spectrophotometry, 6E38
- in urine, by oxidation in aq. and nitromethane soln., 8D54
- spectrophotometric, 8E47
- sepn. of, by h.p.l.c., computer optimization of, 11A20
- by t.l.c., Folin - Ciocalteu reagent in, 6E39
- spectrofluorimetric study of, 5E38
- t.l.c. of metabolites of, 10E27
- Phenothrin**, detmn. of, review, 11G40
- Phentermine**, analysis of counterfeit tablets of, spectrophotometric, 7E27
- Phenylalanine derivatives**, sepn. of, by t.l.c., 3D147
- Phenylamine**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- Phenylbutazone**, detmn. of, in milk, by h.p.l.c., 2D69
- in ointments, spectrophotometric or titrimetric, 8E56
- in pharmaceutical preparations, by h.p.l.c., 12E35
- spectrophotometric, 2E28
- in urine, by g.l.c. - e.c.d., 2D49

Phenylbutazone—continued

- detmn. of azobenzene and hydrazobenzene in, by h.p.l.c., 5E35
- Phenylenediamine**, detmn. of, coupling agent for spectrophotometric, 3C32
- p-Phenylenediamine**, detmn. of, chloranil in spectrophotometric, 11D167 in hair dyes, by h.p.l.c., 5C91
- Phenylenediamines**, detmn. of, in hair dyes, by h.p.l.c., 7C84 in water, by h.p.l.c., 4H76
- Phenylephrine hydrochloride**, detmn. of, colorimetric, 10E30 3,5-dichloro-p-benzoquinonechlorimine in colorimetric, 10E31
- Phenylhydroxylamine**, detmn. of, in blood, by h.p.l.c., 6D142
- Phenyl myristate**, sepn. of, from similar esters, by supercritical-fluid chromatography, 4C22
- Phenyl palmitate**, sepn. of, from similar esters, by supercritical-fluid chromatography, 4C22
- Phenylpropanolamine**, detmn. of, after phthalaldehyde - thiol derivatization, by h.p.l.c., 7E29 in cocaine, by h.p.l.c., 8E12 in human urine, by h.p.l.c., 9D77 in pharmaceutical preparations, by oxidation - h.p.l.c., 12E44 in plasma, by h.p.l.c., 1D58 in serum and urine, by h.p.l.c., 4D115 in urine, by g.l.c. - c.c.d., 2D49 detmn. of enantiomers of, by n.m.r., 7E28 identn. of, in phentermine tablets, spectrophotometric, 7E27 sepn. of enantiomers of, by h.p.l.c. on chiral stationary phase, 3E37
- Phenylpyrimidine, 4-methyl-5-phenyl-**, identn. of, in amphetamine, by g.l.c. - m.s., 9E39
- Phenyl stearate**, sepn. of, from similar esters, by supercritical-fluid chromatography, 4C22
- Phenylramidol hydrochloride**, identn. of, micro-crystallization reactions for, 8E57
- Phenylethanolamine**, alkylation studies of, by g.c., 3E22
- detmn. of, and its metabolites, in urine, by h.p.l.c. and t.l.c., 6D80 by h.p.l.c., 2D63 in biological fluids, immunochemical, automated analyser for, 12J9 in biological materials, by h.p.l.c., 10D82 in blood, by automated fluorimetry or photometry, 4J10 in blood plasma, by h.p.l.c., 4D87 in human serum, by homogeneous immunoassay with avidin conjugate, 9D59 in plasma, 6D77 by fluorescence immunoassay, 6D78 by h.p.l.c., 12D74 in serum, Abbott TDx system for stat, 11D38 by EMIT, 12D75 stability of calibration graph in, 4D71 by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89 by enzymic assay - liquid chromatography, 5D9 by fluoro-immunoassay, 1D39, 3D46 with centrifugal analyser, 7D42 by h.p.l.c., 8D45 by liquid chromatography, 7D58 by reversed-phase h.p.l.c., 8D47 by semi-automated enzyme immunoassay, 4D90 by spectrophotometry, 4D92 effect of storage on, 10D81 rate-nephelometric, 6D79 in serum and anticoagulant-treated plasma, by enzyme-multiplied immunoassay, 4D88 in serum and plasma, by fluoro-immunoassay, simultaneously with phenobarbitone, 1D48 in ultra-filtrates of plasma and saliva, by g.l.c., 4D91 in urine, by h.p.l.c., 2D64 detmn. of free, in serum, by ultra-filtration - fluorescence polarization immunoassay, 10D86 detmn. of total and unbound, in plasma, by EMIT, interference by 5-(4-hydroxyphenyl)-5-phenylhydantoin in, 10D85
- Pheophorbide a**, detmn. of, in chlorella and vegetables, by reversed-phase t.l.c., 7D204
- Pheromones**, analysis of ant, by chemical-ionization m.s., 8J110 detmn. of, in insect attractants, by cold-trapping and bioluminescence, 3G23 in moths, by g.c. - m.s., 11G41 identn. of insect, by reaction gas chromatography, 1G21 sepn. of enantiomers of, by complexation g.c., 12J67 structure elucidation of long-chain insect, by g.c., 8C10
- Phloroglucinol**, detmn. of, by iodimetric titrimetry, 11C18
- Phenomenon**, detmn. of, in infected tomato plants, by h.p.l.c., 11G6
- Phorate**, detection of, by g.c., effect of column temp. on, 1G17 detection of oxo-analogue of, by t.l.c., 4G38 detmn. of, by t.l.c., 2G17
- Phorbol esters**, detection of, in croton oil, by h.p.l.c., 8E26
- Phosalone**, detmn. of, in urine, by g.l.c., 3D86
- Phosgene**, detmn. of, in dichloromethane, by g.l.c. of metoprolol or 2-aminophenol derivative, 3C5 detmn. of chlorine in, automated galvanic analyser for, 4B101
- Phosphamidon**, detmn. of, by t.l.c., 2G17
- Phosphatase**, assay of, in estuarine water, by cleavage of 4-nitrophenyl phosphate, 9H81

Phosphatase, assay of.—continued

- sampling for, 9H82
- , **acid**, assay of, by r.i.a., 1D220 improved quality control of, 7D246 in serum, kinetic, 12D233 spectrophotometric, 3D272 assay of prostatic, by r.i.a., 4D322 in biological materials, by enzyme assay and r.i.a., 12D242 in blood serum, by r.i.a., 4D333 in seminal plasma, by enzyme immunoassay, 4D329 detection of, in insect venom, by cation-exchange h.p.l.c., 4D331 in semen, in the presence of blood, reagent for, 4D332 detection of isoenzymes of, by gel electrophoresis, in presence of peroxidase isoenzymes, 11D231 identn. of, by isoelectric focusing, 1D213 screening for seminal, sodium thymolphthalein phosphate in colorimetric, 8D254
- , **alkaline**, assay of, by polyacrylamide gel electrophoresis, 3D178 in natural waters, by fluorimetry, 1H39 in serum, 3D260 by anion-exchange chromatography, 2D232 spectrophotometric, 12D238 in urine, stability-indicating, 3D246 reference material for, 8A9 standards for, 5D237 assay of biliary, in plasma, by ion-exchange chromatography, 9D270 assay of carcinoplacental isoenzyme of, by enzyme immunoassay, 6D306 assay of intestinal and placental, solid-phase direct immuno-, 8D249 detection of, by polyacrylamide gel electrophoresis, activity stain for, 5D247
- Phosphate**, detmn. of, as molybdenum blue, factorial design optimization in flow-injection, 7J9 by a.s., from reduction of calcium signal, after ion-exchange sepn., 4B121 by flow coulometry, 6B112 by flow-injection analysis, 5D246 by ion chromatography, 8B80 by ion chromatography with EDTA as eluent, 12B24 by non-suppressed ion chromatography, 8B15 by photometry, 5J80 by potentiometric titration, hexadecylpyridinium chloride in, 2B58 by reverse flow-injection analysis, 7B87 by spectrophotometry or spectrofluorimetry, 5B166 errors in spectrophotometric, 8B79 in bile, by amperometry, 6D43 in biological fluids, by automated colorimetry, 1D27 in biological tissues, by spectrophotometry of molybdate complex, 4D50 in environmental materials, spectrophotometric, 12H7 in natural waters, by ion chromatography, 3H30 in potable and natural water, by ion chromatography, 3H29 in potable water, by flotation - spectrophotometry, 5H60 in precipitation water, by ion chromatography, 12H42 in presence of molybdenum, by paper chromatography or t.l.c., 7B88 in serum, by ion chromatography, 2D37 in soil, 10G10 in soln., by spectrophotometry, 8B81 in steel and drinking water, by catalytic d.c. polarography, 2B57 in urine, pre-treatment procedure for, 10D14 in washing powder, by voltammetry, 6C46 in waste water, by spectrophotometry, 2H68 in water, by derivative spectrophotometry, 8H64 by segmented-flow analysis, 7H43 by spectrophotometry, 6B34 spectrophotometric, 11H41 in water and effluents, by ion chromatography, automated, 12H43 mercury - EDTA complex in titrimetric, 10B41 titrimetric, with aluminium electrode, 11J144 with zinc acetate and ammonium molybdate in spectrophotometric, 4D49 detmn. of condensed, in meat products, spectrophotometric, 10F28 detmn. of inorganic, in biological materials, colorimetric, 10D42 in presence of organic phosphate, 7D250 detmn. of soluble reactive, in water, filtration methods for, 8H61 detmn. of trace, effect of paper filtration on, 6B111 ion-selective electrodes for, review, 11J129 selective sorbent for, 11B92 sepn. of, in lake water, by gel chromatography, errors in, 11H46
- Phosphates**, detmn. of, in biological materials, by n.m.r., 5D2 in chipboard, by t.l.c., 2C63 in food, spectrophotometric, 9F18 detmn. of inorganic, in detergents, by h.p.l.c., 12C53 detmn. of uranium in, by a.s. with argon plasma, 2G8 t.l.c. of organic, 2C24
- Phosphatides**, sepn. of, by solvent extraction - chromatography, 3D113 by t.l.c. with pH gradients, 8D126
- Phosphatidylcholine, dipalmitoyl-**, detmn. of, in amniotic fluid, by m.s., 1D106
- Phosphatidylcholines**, detmn. of, by liquid-ionization m.s., 9J114

- Phosphatidylcholines**, detmn. of, —continued
in amniotic fluid, by enzymic colorimetry, 2D147
by t.l.c., 6D179
enzymic, 10D139
in bile, by h.p.l.c., 6D180
in food, 6F21
in serum, by flow-injection amperometry, 5D136
in serum and plasma, by t.l.c. - densitometry, 1D181
in serum high-density lipoproteins, enzymic, 5D138
detmn. of ratio of sphingomyelin to, in amniotic fluid, effect of blood contamination on, 10D137
standardization of soya-bean, 1E43
- Phosphatidylglycerol**, detmn. of, in amniotic fluid, by t.l.c., interference in, 12D134
enzymic, 10D139
enzymic colorimetric, 12D133
- Phosphinate**, detmn. of, in nickel-plating soln., by n.m.r., 3B104
- Phosphine**, detmn. of, in blood and tissues, by g.l.c., 3D88
in cereals, by spectrophotometry, 5G40
in hazel-nuts and soya beans, by g.l.c., 2G29
in wheat, spectrophotometric, 10G24
- Phosphine oxide, trioctyl-**, detmn. of, in phosphoric acid, by g.c., 5B168
- Phosphite**, detmn. of, by oxidation - potentiometric titration, 11B91
in plating soln., by ion chromatography, 8B80
- Phosphites**, detmn. of, by titrimetry, 5B165
- Phospho-L-arginine**, detmn. of, in nerve tissue, enzymic - bioluminescence method for, 6D219
- Phospholipase A**, detection of, in insect venom, by cation-exchange h.p.l.c., 4D331
- Phospholipase A₂**, assay of, chiral substrate for, 7D251
in serum, by fluorimmunoassay, 4D327
- Phospholipids**, detmn. of, in amniotic fluid, by h.p.l.c., 4D172
in bile, by t.l.c. on Chromarods, 6D181
in semen, by h.p.l.c., 2D148
in serum, by flow-injection amperometry, 5D136
in tissues, by h.p.l.c., 7D134
by t.l.c., 12D129
detmn. of negatively charged, 7D133
extraction of, from amniotic fluid, 9D134
identn. of, in bacteria, by t.l.c., 7D135
in platelets, by h.p.l.c. - g.l.c., 2D150
sepn. of, by h.p.l.c., 6D178
of peanut oil, by t.l.c., Iatroscan - Chromarod method in, 2F41
sepn. of phosphono analogues from phosphoryl, by column chromatography and t.l.c., 4D171
—, **amino-**, detmn. of, in brain, by h.p.l.c. with fluorescent label, 2D149
- Phosphonate**, detmn. of, in nickel-plating soln., by n.m.r., 3B104
- Phosphonates**, detmn. of, by titrimetry and n.m.r., 5C38
- Phosphonic acid, anilomethyl-**, detmn. of, by g.c., derivatization method for, 11G27
—, **hydroxyalkylenedi-**, detmn. of, by potentiometric titration, 5C81
—, **hydroxyethylenebis-**, detmn. of, by titrimetry and n.m.r., 5C38
—, **methyl-, alkyl esters**, detmn. of, by h.p.l.c. of *p*-bromophenacyl esters, 3C23
—, **nitritotrimethylenetri-**, detmn. of, by titrimetry and n.m.r., 5C38
- Phosphonic acid dibutyl ester, butyl-**, detmn. of, in phosphoric acid, by g.c., 5B168
- Phosphonium ion, tetraphenyl-**, detmn. of, by titrimetry, 8C38
- Phosphonolipids**, detection and isolation of, from goat spleen, by t.l.c. - column chromatography, 4D173
sepn. of, from phospholipid analogues, by column chromatography on silicic acid, 5D139
- Phosphoramidate**, t.l.c. of, 2C24
- Phosphoribosyl pyrophosphate synthetase**, assay of, in cell lysates and intact cells, by h.p.l.c., 4D296
- Phosphoric acid**, detmn. of, pH-metric, 4C17
detmn. of calcium, phosphorus and sulphur in, by XRF, 2B55
detmn. of organic contaminants in, by g.c., 5B168
detmn. of trace thorium, yttrium and uranium in, by ICP a.e.s., interference in, 11B93
detmn. of uranium in wet-process, fluorimetric, 10B100
sepn. of, in surfactants, by t.l.c., 12C52
- Phosphoric acid aryl diethyl esters**, sepn. of, by reversed-phase t.l.c., 12C24
- Phosphoric acid bis-(2-ethylhexyl) ester**, detmn. of, in phosphoric acid, by g.c., 5B168
- Phosphoric acid ester**, sepn. of, in plasticizers, by h.p.l.c. and t.l.c., 11C67
- Phosphoric acid 2-ethylhexyl diphenyl ester**, detmn. of, in air, spectrophotometric, 8H34
- Phosphoric acid 2-ethylhexyl ester**, sepn. of, in surfactants, by t.l.c., 12C52
- Phosphoric acid tributoxethyl ester**, detmn. of, in tap-water, by g.l.c., sampling for, 8H93
- Phosphoric acid tributyl ester**, detmn. of, in phosphoric acid, by g.c., 5B168
in presence of Hyfrane 120, by h.p.l.c., 1C11
- Phosphoric acid trixylyl ester**, detmn. of, in liver and kidney, by t.l.c. - spectrophotometry, 11D111
- Phosphorimetry**, developments in, review, 10J100
enhancement of signals in, by molecular organization, review, 6J143
- Phosphorimetry—continued**
room-temperature, in detmn. of PAH in mixtures, 12J105
instrumental modification for improved sensitivity in, 12J107
reduction of background in, 12J106
zeroth- and second-order derivative, in identn. of aromatic hydroxy-compounds, 12C26
time-resolved, optimization of, 10J103
u.v. - visible, review, 12J84
- Phosphorochloridic acid ester**, detmn. of, in water, by g.c., 10H69
- Phosphorodiamidic acid phenyl ester**, detmn. of, in fertilizer, by t.l.c. and photometry, 5G18
in soil and urea fertilizer, by colorimetry, 5G12
- Phosphorodithioic acid dialkyl esters**, extraction of, from water, by methylene chloride, in presence of tetraphenylarsonium, 5G29
- Phosphorodithioic acid esters**, detmn. of, in aq. soln., 12C37
- Phosphorothioic acid, 5-2-(3-aminopropylamino)ethyl ester**, detmn. of, in plasma, by h.p.l.c., 3D76
- Phosphorous acid esters**, detmn. of, by titrimetry, 5B165
- Phosphorus**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
detmn. of, by laser Raman spectrometry, heteropoly acids in, 2B56
by molecular-emission cavity analysis, 9B104
by molecular emission spectrometry, 10J99
by spectrophotometry, 7B85
in anoxic waters, by h.p.l.c., 7H44
in apatite - nepheline ores, by γ -activation analysis, 3B108
in aq. soln., by chemiluminescence after reduction to phosphine, 4B120
in bile, by potentiometric titration, 3D22
in biological materials, by α -particle activation analysis, 5D29
in calcium phosphate and industrial water, by n.a.a., 4J155
in cast iron and pig iron, eutectic cooling curve in, 4B155
in cereal products, by combustion - spectrophotometry, 7F33
in copper - nickel alloy, by electrothermal a.a.s., 2B59
indirect, by polarography, 7B86
in environmental waters, spectrophotometric, review, 8H63
in erythrocytes and plasma of pregnant women, by PIXE, 12D17
in feeds, stopped-flow colorimetric, 8G7
in fish and spinach, by a.a.s. and AutoAnalyzer methods, 12B108
in forage, precision and quality control of, 5G21
in ground water, spectrophotometric, 3H46
in hard metals and raw materials, by secondary-ion m.s., 11B90
in hydrolysing media, 9B105
in inorganic materials, instrumental, 10B98
in iron and steel, by spectrophotometry, 11B134
in iron-ore concentrates, by XRF, 11B130
in iron ores, spectrophotometric, 11B129
in leaves and wheat flour, by spectrophotometry, 6D45
in metals, by n.a.a., 1B85
in organic compounds, by indirect a.a.s., 12C7
in phosphoric acid, by XRF, 2B55
in pig iron, by ICP a.e.s., 12B146
in plant material, solvent-extraction fractionation in, 4D48
in plants, by hydrochloric acid extraction, 11G1
in plasma and urine, automated spectrophotometric, 3D16
in presence of silicon, by spectrophotometry, 6B113
in presence of tungsten, by flotation - spectrophotometry, 6B136
in quartz glass, extraction - spectrophotometric, 7B153
in semiconductors, by n.a.a., 2B92
in silane, by emission spectrometry, 1B68
in silicate rocks, flow-injection spectrophotometric, 12B83
in silicates, by spectrophotometry after lithium carbonate - boric acid fusion, 5B142
in silicon, by n.a.a., 4B106
by spectrography, 4B103
by spectrophotometry, 4B105
in soil, extractants for, 11G11
in soil and biological materials, by ICP a.e.s., 10D17
in starch, by a.a.s., 3F12
in starch products, standard methods for, 8F19
in steel, by spectrophotometry, 1B131
in steel and alloys, by titrimetry, 1B126
in steel and nickel alloys, by spectrophotometry, 4B165
in sulphuric acid, by extraction - spectrophotometry, 9B122
in tungsten, by n.a.a., 5B206
in tungstic acid, spectrophotometric, 3B84
in urine, 1D17
in urine and food, by plasma emission spectrometry, 12D22
in water, interference by iron and hydrogen sulphide in, 12H66
masking of iron in, 8H65
light sources for photoacoustic spectrometric, 1B86
Rhodamine 6G and molybdophosphate in fluorimetric, 10B97
solubilization with non-ionic surfactants in spectrophotometric, 9B103
detmn. of total, in water, by AutoAnalyzer after persulphate oxidation, 10H54
detmn. of trace impurities in, by a.a.s., hydride-generating system for, 5B169
sepn. of, from metals and alloys, radiochemical, 5B167
- Phosphorus-32**, Cerenkov counting of, effects of sample composition and phial type on, 5J156

Phosphorus-32—continued

- detmn. of, by liquid scintillation counting, 4B102
effect of carrier substance and pH on, 5J157
in tissue solubilizer soln., by liquid scintillation counting, 6D44
- Phosphorus-33**, detmn. of, in faeces, by scintillation counting, 2D38
- Phosphorus compounds**, analysis of organic, by pyrolytic sulphurization g.c., 9C10
detection of, by g.c., f.i.d. for, 1C12
detmn. of heterocyclic dithio-derivatives of, 12C37
detmn. of organic, in water, by spectrophotometry, 6B34
sepn. of organic, by gel-permeation chromatography, 9C58
- Phosphorus oxychloride**, detmn. of cadmium in, masking agent for spectrophotometric, 2B28
- Phosphorus pentoxide**, detmn. of, in red mud, review, 1B47
in refractory silicates, Japanese standard method for, 12B84
in washing powders, gravimetric, 7C71
- Phosphorylase**, assay of, by h.p.l.c. of α -D-glucose 1-phosphate, 3D259
sepn. of, by electrophoresis, replicas of silver-stained gels in, 3J40
- Photocopying toners**, detmn. of, by i.r. spectrometry, 1C41
identn. of, by i.r. spectrometry, 1C40
- Photographic films**, analysis of layers in, by thermal-wave imaging, 10C86
- Photographic materials**, detmn. of silver in fixing soln., reagent for spectrophotometric, 6C66
developers, detmn. of metol in, spectrophotometric, 12C27
films, detmn. of silver and halogen ratio in, by XRF, 6C65
paper, detmn. of thiosulphate in processed, by colorimetry, 8C97
- Photometry**, device for, for measurements in closed round-bottomed flasks, 3J72
heteropoly-acid - dye complexes in, review, 2A3
ion-exchange membranes in, 1B92
reagents for, surfactant-based, 11A9
reflectance digital matrix instrument for, 1J77
- Phthalate**, detmn. of, in urine, by g.c., 10D124
- Phthalates**, detmn. of, in paints, by n.m.r., 6C58
sepn. of, by open-tubular capillary liquid chromatography, 7J24
- Phthalic acid**, detmn. of, in soil, by h.p.l.c., 6G7
in vegetables, by ion chromatography, 6F65
- Phthalic acid alkyl esters**, detmn. of monoalkyl and alkyl benzyl, by g.c. - m.s., 12C64
- Phthalic acid bis-(2-ethylhexyl) ester**, detmn. of, in blood stored in PVC bags, by h.p.l.c., 8D96
- Phthalic acid dialkyl esters**, detmn. of, by micro-h.p.l.c., 10J38
- Phthalic acid ester**, detmn. of, in marine samples, by g.c. - m.s., 11H65
in soils and sediments, by g.l.c., 6H93
in suntan preparations, by h.p.l.c. and g.l.c., 1C31
sepn. of, by h.p.l.c., 10J44
in plasticizers, by h.p.l.c. and t.l.c., 11C67
- Phthalic anhydride**, detmn. of, in alkyl resins, by g.c., 3C70
by ion exchange, 2C74
detmn. of naphthaquinone in, colorimetric, 9C28
detmn. of o-xylene, duren and naphthalene in, by g.c., 5C47
- Phthalides**, detmn. of, in celery, by h.p.l.c., 6F61
- Phthalimide derivatives**, N-alkyl-, h.p.l.c. of, calculation of capacity factors with different mobile phases in, 8C37
- , N-substituted, detection of, in dyes, by g.l.c. - m.s., 2C60
- Phthiazid**, detmn. of isoniazid formed by decomposition of, by t.l.c. and spectrophotometry, 8E83
- Phylloquinone**, detmn. of, by h.p.l.c., dual-electrode detector for, 9D242
in infant formulae, by h.p.l.c., 4F42
in plasma, by g.l.c. with coated fused-silica column, 11D63
by h.p.l.c., 6D287, 8D223, 11D223
- Phylloquinone epoxide**, detmn. of, in plasma, by h.p.l.c. with electrochemical - fluorimetric detection, 12D222
- Phylloquinone 2,3-epoxide**, detmn. of, in plasma, by g.l.c. with coated fused-silica column, 11D63
by h.p.l.c., 6D287
- Physarum polycephalum**, detmn. of adenosine 5'-P¹-tetraphospho-P⁴-S'''-adenosine and adenosine 5'-P¹-tetraphospho-P⁴-S'''-guanosine in, 7D219
sepn. of histones from, by h.p.l.c., 11D202
- Physostigmine salicylate**, detmn. of, by cerimetry, 4E3
by ion-pair extraction - titrimetry, 8E7
- Phytanic acid**, identn. of, in serum, by g.l.c., 9D116
- Phytate**, detmn. of, in cereals and cereal products, by colorimetry, 6G2
in wheat products, faeces and foods, by ion exchange, 2F5
- Phytic acid**, detmn. of, in bran, by h.p.l.c., 3F14
- Phytoalexins**, detmn. of, in *Cicer arietinum*, by h.p.l.c., 5G6
- Phytol**, detmn. of, in chlorella and vegetables, by g.l.c., 7D204
- Phytomenadione**, detmn. of, in plasma, by h.p.l.c. with electrochemical detection, 10D246
- trans-Phytomenadione**, detmn. of, in serum, by h.p.l.c., 3D239
- Phytoplankton**, detmn. of chlorophyll *a* in, 3D217
detmn. of RNA and DNA in marine, ethidium bromide in fluorimetric, 4D279
- Picloram**, detmn. of, in soil and water, by h.p.l.c., 11G13
- Picobenzide N-oxide**, detmn. of, in urine, by differential pulse polarography, 4D104
- 3-Picoline**, detmn. of aldehydes in products of synthesis of, by volumetric and polarographic methods, 5C22
- Picolines**, sepn. of, in coal tar, by g.l.c., 9C61

- Picolinic acid, 6-chloro-**, detmn. of, in water, soil and grain, by t.l.c., 7H6
- Picolinoilhydrazine**, detmn. of, by spectrophotometry, after complexation with chloranil, 4E56
- Picrate**, detmn. of, electrode for, 6J182
membrane electrodes for, 11J130
- Piezoelectric crystals**, in analysis, 4J162
- Pigeon peas**, detmn. of potassium in, by dil. acid extraction and a.a.s., 9G3
- Pigments**, analysis of, for ecological and toxicological assessment, review, 11H2
analysis of plate-like, by X-ray diffractometry, 11A6B
detmn. of, in maize leaves, by t.l.c. - derivative spectrophotometry, 9D224
in sea-water, by h.p.l.c., review, 2H54
detmn. of iron^{II} in, 6C60
detmn. of residue in, by mechanical flushing through sieve, 6C62
detmn. of water-soluble sulphates in, by amperometric titration with lead acetate, 12C77
identn. of, in antiquities, by Raman laser micro-probe, 10C83
in paints, micro-spectrophotometric, 9C87
particle size analysis of, by electrical birefringence, 2J130
sepn. of, by h.p.l.c. with photodiode-array detection, data treatment in, 7A16
- Pilocarpine hydrochloride**, detmn. of, in eye-drops, iodimetric, 3E34
- Pilocarpines**, sepn. of, in ophthalmic soln., by h.p.l.c., 2E11
- Pimelic acid, diamino-**, detmn. of, in bacteria or peptidoglycans, by g.c. with e.c.d. or selected-ion monitoring, 8D170
in fermentation broths, by t.l.c., 5D120
- Pimelohydrazide**, detmn. of, spectrophotometric, 3C20
- Pimozide**, detmn. of, in plasma, by h.p.l.c., 2D78
- Pineapples**, detmn. of carbaryl in, by h.p.l.c. and chemical-ionization g.c. - m.s., 11G38
- α -Pinene**, sepn. of, from 3-carene, γ -terpinene and fenchone, by g.c. - n.m.r., 8J65
sepn. of enantiomers of, by g.c., 7C11
- β -Pinene**, sepn. of enantiomers of, by g.c., 7C11
- Pine needles**, detmn. of essential oils and terpenes in, by head-space g.c., 4D144
detmn. of metals in, by a.a.s., 8F20
- Pinus echinata**, detmn. of indol-3-ylacetic acid in, by ion-pair h.p.l.c., 9G13
- Pipelicolic acid**, detmn. of, in rat brain, by h.p.l.c., 8D167
- Pipemidic acid**, detmn. of, in drugs, by g.l.c., 1E32
- Piperacillin**, detmn. of, in plasma and urine, by liquid chromatography, 8D37
- Piperazine**, detmn. of, bromanil in spectrophotometric, 10C47
in formulations, by colorimetry, 6E55
—, 1-benzyl-4-picolinoil-, sepn. of, and its metabolites, in urine and plasma, by h.p.l.c., 3D60
—, 1-(3-chlorophenyl)-, detmn. of, in plasma, by h.p.l.c. with electrochemical detection, 5D69
—, N,N'-dinitroso-, detmn. of, in biological fluids, by g.l.c., 5D94
—, 1-(3-hydroxy- α -phenylphenethyl)-4-(3-methylbut-2-enyl)-, sepn. of enantiomers of, by h.p.l.c., 3E23
—, N-nitroso-, detmn. of, in biological fluids, by g.l.c., 5D94
- Piperazine-1-carbonyl chloride, 4-ethyl-2,3-dioxo-**, detmn. of, by g.c. as amide derivative, 9C42
- Piperazine citrate**, detmn. of, by oscillopolarographic titrimetry, 9E49
- Piperazine derivatives, 1-aryl-**, detmn. of, in rat plasma and brain, by g.c., 9D63
- Piperidine**, detmn. of, bromanil in spectrophotometric, 10C47
in waste water, by spectrophotometry, 2H70
detmn. of pyridine in, dimedone bis(amidinohydrazone) in spectrophotometric, 11B25
titration of, coulometric generation of protons in, 4C25
—, (-)-1-cyclopropylmethyl-4-(3-trifluoromethylthio-5H-dibenzo[a,d]-cyclohepten-5-ylidene)-, detmn. of, in plasma and urine, by g.l.c., 1D57
—, dimethyl-, detmn. of, bromanil in spectrophotometric, 10C47
—, methyl-, detmn. of, bromanil in spectrophotometric, 10C47
—, N-nitroso-, detmn. of, in foods, by g.l.c. and h.p.l.c., 8F7
in rubber teats, by g.c. with thermal energy detection, 7C102
- Piperidine-2-thione**, detmn. of, 4-(2-pyridylazo)resorcinol and copper^{II} in spectrophotometric, 10C49
- Piperidin-4-ol, 1-(1-phenylcyclohexyl)-**, detmn. of, in urine and blood plasma, by g.l.c., 4D97
- Piperine**, detmn. of, in black and white pepper, by t.l.c., 12F29
in pepper, by h.p.l.c., 2F38
- Piper methysticum**, analysis of lactones of, by h.p.l.c., 9D113
- Piperonyl butoxide**, detmn. of, by g.c. and t.l.c., 9G26
in shampoos or lotions, by capillary-column g.c., 11E50
in spray formulations, by h.p.l.c., 12G17
- Piquil oil**, analysis of, by pyrolysis g.c. - m.s., 6F82
- Piromidic acid**, detmn. of metabolites of, in fish, by h.p.l.c., 11D100
- Piroxicam**, detmn. of, in biological materials, by h.p.l.c., 2D88
- Pirprofen**, detmn. of, by coulometric titration, 8E54
- Pitch**, analysis of, by n.m.r., symposium, 1A1B
analysis of coal-tar and petroleum, by g.c. - m.s. and pyrolysis m.s., pattern recognition in, 6C43
detmn. of iron and aluminium in petroleum, by low-temperature plasma ashing - graphite-furnace a.a.s., 1C24

Pitch—continued

- identn. of organic sulphides in, by i.r. spectrometry, 9C60
Pituitary, detmn. of opioid peptides in, by r.i.a., 10D181
 detmn. of prolactin in, of rat, by enzyme-linked immunosorbent assay, 9D207
 identn. of peptides in, by h.p.l.c., 3D159
 sepn. of peptides in, by h.p.l.c., 3D168
 sepn. of proteins in, by h.p.l.c., 3D189
Placenta, assay of sterol-sulphatase in, radiochemical, 12D235
 detmn. of L-lysine in, by enzymic fluorimetry, 1D140
 sepn. of luteinizing hormone-releasing hormone from, by h.p.l.c., 3D156
Placental protein 14, detmn. of, in serum, by r.i.a., 8D205
Plankton, detmn. of neutral sugars in, by g.c., 12D115
Plants, analysis of, after freeze-drying, 1D5
 by chromatography, review, 7D1
 by micro-spectrophotometry, 9A3B
 by n.a.a., mineralization in, 5G1
 by temp.-programmed-fractionation m.s., 12E22
 assay of α -amylase in, 4D330
 assay of UDPglucosyltransferase in leaves of, by h.p.l.c., 7D244
 detection of indol-3-ylacetic acid and its derivatives in, by h.p.l.c., 3G13
 detection of insect fragments in, stains for, 9F12
 detmn. of abscisic acid in, by r.i.a., 10D130
 detmn. of abscisic and phasic acids in, by h.p.l.c., 3G15
 detmn. of aldicarb and thiofanox and their metabolites in, by t.l.c., 12G15
 detmn. of alkaloids in medicinal, by t.l.c., 8E6
 detmn. of aluminium in, xylenol orange in colorimetric, 2B31
 detmn. of ammonium ion in, by Kjeldahl analysis, 5G13
 detmn. of arsenic in, by a.a.s., 2B60
 detmn. of arylamide pesticides in, 11H71
 detmn. of asulam in, by fluorimetry, 5G36
 detmn. of boron in, by pH-difference measurement, 1B41
 spectrophotometric, 8B44
 detmn. of butyric acid in, by h.p.l.c., 4G39
 detmn. of carbofuran and its 3-hydroxy-metabolite in, by t.l.c., 12G16
 detmn. of carbofuran residues in, by g.c. - m.s., 6G33
 detmn. of carbon, nitrogen and phosphorus in, solvent-extraction fractionation in, 4D48
 detmn. of carbon and its radioisotope in, wet-combustion method for, 8D27
 detmn. of cardiac glycosides in, enzymic, 2E15
 detmn. of carotenoids and chlorophylls in leaves of, by spectrophotometry, 4D272
 detmn. of chlorine and sulphur in, by ion chromatography, 7D34
 detmn. of chlorogenic acids and caffeoyl phenylethanol glycosides of, by liquid chromatography, 10D131
 detmn. of chlorophyll in, after carbon-14 dioxide incorporation, 8D212
 detmn. of chlortoluron and metoxuron in, by g.c., 3G17
 detmn. of chromium in, by a.a.s., 2G1
 detmn. of cyhexatin and its metabolites in, by t.l.c., 6H4
 detmn. of cytokinins in, by g.l.c., 5G26
 detmn. of 2,4-D and its salts in, by t.l.c., 8G13
 detmn. of dicloran in, by t.l.c. or g.c., 8H88
 detmn. of diosgenin in, by enzyme immunoassay, 9D135
 detmn. of diquat and paraquat in, by differential pulse polarography, 5G34
 detmn. of essential oils in, by micro-distillation - g.l.c., 6C47
 detmn. of fluoride in, 1H35
 detmn. of fluoroacetic acid in, by g.l.c. - m.s., 9D123
 detmn. of fructose, glucose and sucrose in, by h.p.l.c., 4D147
 detmn. of gibberellins in, by h.p.l.c. - selected-ion monitoring m.s., 1G10
 detmn. of heavy metals in, by a.a.s. and emission spectrography, 5D24
 detmn. of hormones in, review, 8G9
 detmn. of ionic and alkyl-lead in aquatic, by g.c. - a.a.s., 10H52
 detmn. of lead in, by a.a.s., ascorbic acid in, 3D21
 by extraction - polarography, 4B22
 by room-temperature phosphorescence, 8H58
 detmn. of long-lived radionuclides in, 5H2
 detmn. of lycorine in, by h.p.l.c., 8D156
 detmn. of mercury, selenium and arsenic in, by a.f.s., 4G14
 detmn. of methamidophos on, spectrophotometric, 10G23
 detmn. of molybdenum in, by a.a.s., 12D48
 by differential pulse polarography, 3D27
 by spectrography, effect of zirconium on, 5B202
 detmn. of nickel in, by a.a.s., 10D48
 detmn. of nitrate in, by g.l.c., 2,4-xylenol in, 5H65
 detmn. of nitrate in leaves of, flow-injection, 7G1
 detmn. of nitrogen in, by spectrophotometry, 5D28
 detmn. of oxygenated fatty acids in, by extraction - h.p.l.c., 12D121
 detmn. of pesticide residues in, inter-laboratory, 11G25
 detmn. of phosphorus in, by spectrophotometry, 6D45
 detmn. of plutonium-241 in, by liquid scintillation spectrometry, 5H88
 detmn. of polysaccharides and uronides in, by molecular-absorption spectrometry, a.a.s. and g.c., 5F35
 detmn. of propiconazole and etaconazole in, by g.c., 1G13
 detmn. of protocatechuic and homoprotocatechuic acids in, spectrophotometric, 4D160

Plants—continued

- detmn. of pyrazophos in, spectrophotometric, 12G10
 detmn. of rosmarinic acid in medicinal, by h.p.l.c., 12E15
 detmn. of selenium in, hydride generation - a.a.s. for, 2D46
 detmn. of silicon in, extraction method for, 11D21
 detmn. of starch, amylose and amylopectin in, by pptn. - filtration, 4D151
 detmn. of stilbene derivatives in, by h.p.l.c., 12E17
 detmn. of sulphur in, automated analyser for, 11D29
 by XRF, 1D30
 4'-chlorobiphenyl-4-amine in spectrophotometric, 2D41
 detmn. of 2,3,7,8-tetrachlorodibenzo-p-dioxin in, by g.c. - m.s., clean-up procedure for, 11G7
 detmn. of thiocyclam in, by t.l.c., 2H63
 detmn. of tin in, by ICP a.e.s., 6B98
 detmn. of titanium in, by spectrophotometry, 7B82
 detmn. of total nitrogen in, persulphate or Kjeldahl digestion in, 9H54
 detmn. of toxins of, review, 11D112
 detmn. of trace elements in, after decomposition by nitric acid, hydrogen peroxide and u.v. irradiation, 5D14
 by hydrochloric acid extraction, 11G1
 detmn. of trace elements in medicinal, by n.a.a., 11E1
 extraction of pesticides from, by steam-distillation, 10G18
 identn. of alkaloids in, by chemical-ionization m.s., 9E3
 identn. of indolylacetic acids in, by g.l.c. - m.s., 4G27
 identn. of metabolites of hexazinone in, by m.s., 7D105
 measurement of pH in cells of, electrode for, 3I02
 multi-element analysis of, by PIXE and instrumental n.a.a., 7D17
 sepn. of betaines and their sulphur analogues in, by cation-exchange h.p.l.c., 12D158
 sepn. of digitalis glycosides and glycoside aglycones from, by h.p.l.c., 4E16
 sepn. of hormones of, by counter-current chromatography, 9G15
 sepn. of low-mol.-wt. hydrophilic components of, by ion-exchange, 10D117
 sepn. of organic acids in, by h.p.l.c., 2D137
 sepn. of phenolic compounds and coumarins in, by h.p.l.c., 3D90
Plasmin, detmn. of, in milk, by spectrophotometry, 7F55
Plasminogen, detmn. of, in milk, by spectrophotometry, 7F55
Plasminogen activator, detmn. of, in tissues, plasma and cell culture medium, by enzyme immunoassay, 7D197
Plasmocid, detmn. of, by t.l.c. - fluorimetry, 2E45
Plasmodium falciparum, assay of dihydrofolate reductase in, by coupled radiometric method, 4D303
Plasticizers, detmn. of, in poly(vinyl chloride), by spectrophotometry, 5C108
 in soils and sediments, by g.l.c., 6H93
 detmn. of phthalate, by g.l.c., 12C64
 sepn. of phthalate, adipate, sebacate and phosphate esters and chloroalkanes in, by h.p.l.c. and t.l.c., 11C67
Plastics, analysis of, electron micro-probe in, 1C33
 analysis of volatile compounds released from, trapping adsorbents for g.c. - m.s., 4C93
 detection of additives from, in food, by h.p.l.c., in migration study, 8F15
 detmn. of hydrogen bromide and hydrogen chloride in combustion products of, by g.l.c., 4B142
Platelet factor 4, detmn. of, in plasma, by enzyme immunoassay, 11D199
Platinum, detmn. of, (2-acetyl)thioacetanilide in gravimetric, 1B139
 alkyl ketoxime in spectrophotometric, 7B138
 as bromo-anion complexes, by ion-pair partition chromatography, 4B181
 by a.a.s., effects of other metals in, 10B171
 by a.a.s. with tungsten-tube atomizer, 9B159
 by flotation - spectrophotometry, 5B261
 by h.p.l.c., 3B105
 by h.p.l.c. - spectrophotometry, 4B190
 by ICP a.e.s., 8B10
 by ion-beam analysis, pre-concentration in, 12B157
 by ion-pair chromatography, 6B173
 by spark-source m.s., pre-concentration on aluminium powder in, 3B12
 by spectrophotometry, 1B150, 5B262
 by spectrophotometry with thiocaprolactam, 5B264
 by voltammetry, 5B266
 crystal violet in spectrophotometric, 11B152
 in alloys, spectrophotometric, 9B174
 in animal tissue, by a.a.s., removal of interference by nitrate in, 9D37
 in biological materials, by differential pulse polarography, 5D39
 by graphite-furnace a.a.s., 4D62
 in decigram amounts, by electrogravimetry, 5B265
 in geological materials, by extraction - a.a.s., 1B138
 in geological samples, by ion exchange with ICP a.e.s. detection, 12B173
 in mixtures, by spectrophotometry, 6B20
 in nickel-plating electrolyte, by spectrography, 10B162
 in ores, by electrothermal a.a.s., 11B150
 in ores and flotation tailings, by a.a.s., 9B160
 in presence of carbon and iridium, chemical - absorptiometric, 10B14
 in rocks, by n.a.a., co-pptn. with tellurium in, 5B250

Platinum, detmn. of,—*continued*

- in serum, by a.a.s., 5D38
- in silicate rocks, by n.a.a., *NN'*-dibenzylthio-oxamide in, 12B85
- in soln., by XRF, 5B263
- mercaptosuccinic acid in titrimetric, 10B39
- methoxypropazine in spectrophotometric, 1B149, 12B172
- Rose Bengal B in extraction - spectrophotometric or - fluorimetric, 10B170
- spectrophotometric, 1B144
- detmn. of carbon, nitrogen and oxygen in, by laser m.s., 12B21
- detmn. of cisplatin-derived, in plasma ultra-filtrate, by h.p.l.c., 11D32
- detmn. of silver in, by spectrophotometry, 2B21
- detmn. of trace metals in, by spectrography, after electrolytic sepn., 2B83
- sepn. of, by cation-exchange chromatography, 4B180
- from gold and palladium, by adsorption - column chromatography, 3B14
- from other platinum-group metals, by h.p.l.c., 10J34
- from palladium, bis-(2-ethylhexyl) sulphoxide in reversed-phase paper-chromatographic, 5B249
- , *cis*-diammine(cyclobutane-1,1-dicarboxylate)-, detmn. of, in serum, by liquid chromatography with electrochemical detection, 5D99
- , *cis*-dichloro-*trans*-dihydroxidi(isopropylamine)-, detmn. of, in serum, by liquid chromatography with electrochemical detection, 5D99
- Platinum alloys**, detmn. of rhodium in, by coulometry, 1B140
- Platinum-group metals**, detmn. of impurities in, review, 9B158
- detmn. of trace, review, 9B158
- sepn. of, by h.p.l.c. of quinolin-8-ol complexes, 10B163
- Platinum(II)**, *cis*-1,1-bis(aminoethyl)cyclohexane-, sulphate, detmn. of, by h.p.l.c. with amperometric detection, 2E46
- Platinum(III)**, *cis*-1,1-bis(aminoethyl)cyclohexane-, chloride, detmn. of, by h.p.l.c. with amperometric detection, 2E46
- Platinum(IV)**, diammine-*cis*-dichloro-*trans*-dihydroxy-, detmn. of, in presence of cisplatin, by h.p.l.c., 10E39
- Plutonium**, analysis of, by γ -ray spectrometry, 2B48
- dissolution methods for, 9B84
- detection of, α -particle imaging system for, 5J143
- detmn. of, by potentiometric titration, 4B91
- by solvent extraction - liquid scintillation counting, 6B91
- in air, continuous monitor for, 9H15
- in biological materials, water, soil or sediment, 1H28
- in bone, by α -spectrometry, 10D36
- in environmental water, 7H38
- in fuel reprocessing soln., by XRF, 11B59
- in irradiated nuclear-reactor fuel, 5B123
- in mixed oxide nuclear fuel, by XRF, intensity-ratio method for, 11B58
- in mixtures, by resonance ionization m.s., 12B72
- in mixtures with neptunium, extraction - spectrophotometric, 11B62
- in nuclear-reactor fuel, 4B92
- in plutonium^{IV} oxide, 11B65
- in soil and tuff, by X-ray and gamma-ray spectrometry, 11G14
- in soln., by energy-dispersive XRF, 4B90
- in spent nuclear-reactor fuel, by differential spectrophotometry, 5B120
- by isotope-dilution α - and mass spectrometry, 5B119
- in urine, isolation method for, 7D28
- in waste materials, by γ -ray spectrometry, 11B64
- polarographic, 11B63
- detmn. of isotopes of, by thermal-ionization m.s., 12B73
- detmn. of trace, review, 9B87
- detmn. of uranium in, by XRF, 6B92
- extraction of, dibutyl (diethylcarbamoylmethyl)phosphonate in, 11B52
- Plutonium-238**, detmn. of, in soft tissues, by α -spectrometry, 4D41
- Plutonium-239**, detmn. of, in neutron-irradiated uranium, by electro-deposition - α -particle spectrometry, 9B76
- in soft tissues, by α -spectrometry, 4D41
- Plutonium-240**, detmn. of, in soft tissues, by α -spectrometry, 4D41
- Plutonium-241**, detmn. of, in air, by liquid scintillation counting, 2H11
- in soil, plants and waste water, by liquid scintillation spectrometry, 5H88
- in waste water, air and environmental materials, by liquid scintillation spectrometry, 5H87
- Plutonium carbides**, analysis of, dissolution methods for, 9B84
- Plutonium oxide**, prep. of, enriched in plutonium-240, for half-life measurement, 12B79
- Plutonium oxide (PuO₂)**, analysis of, dissolution methods for, 9B84
- detmn. of plutonium and impurity elements in, 11B65
- detmn. of traces of moisture in, 11B66
- Polarimetry**, coupled with h.p.l.c., 12J44
- Polarography**, applications in geochemistry and metallurgy, review, 9B7
- baseline slope in, automatic compensation of, 3J114
- differential pulse, a.c. and derivative d.c., resolution of peaks in, 10J147
- instrument for simultaneous square-wave, a.c., d.c. and pulse, 5J183
- limits of detection and efficiency in, 2J117
- mercury coating of spherical platinum electrode for, 12J167
- of metal complexes, review, 4B12
- photochemical de-oxygenation in, 7J136
- pulse, background compensation in, with dropping-mercury electrode, 12J170

Polarography, pulse,—*continued*

- three-dimensional variable-amplitude pseudo-derivative, 3J116
- review, 2J116
- Simplex optimization in, 4A15
- unconventional, review, 1J111
- Pollutants**, sampling of, in air, adsorbents for, effect of thermal pre-treatment on, 3H2
- Polonium-210**, detmn. of, in environmental materials, 5H2
- in snow, by α -particle spectrometry, 4H62
- Polonium-218**, detmn. of, in air, by α -particle counting, computer program for, 9H13
- Polyacetylenes**, detmn. of toxic, in plants, review, 11D112
- Polyacrylamide**, detmn. of, by fluorimetry, 12C73
- Polyacrylamides**, detmn. of monomer in, by i.r. spectrometry, 1C36
- detmn. of trace metals in soln. of, by flame a.a.s., impaired nebulization in, 10C80
- Poly(acrylic acid)**, analysis of surface of, by head-space g.c., 11J49
- Polyalkenes**, detmn. of antioxidants and u.v. stabilizers in, by h.p.l.c., 2C68
- Polyamide 6**, measurement of mol.-wt. distribution of, by size-exclusion chromatography, 7C96
- Polyamide 612**, detmn. of arsenic in, by XRF spectrometry, 9C80
- Polyamides**, detmn. of mineral contamination of titanium dioxide-containing, Quantimet 720 image analyser in, 10C78
- detmn. of oxiran-based antistatic agents in, pptn. - titrimetric, 8C84
- detmn. of volatile and water-soluble organic components in films of, by gravimetry, 5F11
- Polyamines**, detmn. of, by h.p.l.c., 7D153
- electrode for, 2J113
- in urine, by electrophoresis, 1D131
- h.p.l.c. and enzymic, 9D171
- Polycaprolactam**, detmn. of oxiran-based antistatic agents in, pptn. - titrimetric, 8C84
- Polycarbonates**, detmn. of terminal phenolic hydroxy-groups in, by spectrophotometry, 7C93
- Polychloride fibres**, detmn. of, in blends, by hot extraction, 10C76
- Polycyclic aromatic compounds**, detmn. of, 11D260B
- Poly(2,6-dimethyl-1,4-phenylene oxide)**, detmn. of ungrafted, in copolymers and mixtures with polystyrene, 9C78
- Polyesters**, detection of adipic acid, diols and triols in, by g.c., 12C70
- detection of textile finishes on, by XRF spectrometry, 4C85
- detmn. of hydroxy-groups in, 3C68
- detmn. of mineral contamination of titanium dioxide-containing, Quantimet 720 image analyser in, 10C78
- detmn. of spin finishes on, by h.p.l.c., 10C79
- identn. of fibres of, by melting-point and refractive index, 1C35
- Polyethers**, analysis of foams of, by pyrolysis - g.c., 9C81
- detmn. of polyol initiating agents in, by pyrolysis - g.c., 12C74
- Poly(ethyl acrylate)**, detmn. of monomer in, by spectrophotometry, 7C25
- Polyethylene**, analysis of, differential thermal, review, 8J131
- characterization of, i.r. spectrophotometric, review, 8C81
- detmn. of carbonyl groups in oxidized, by i.r. spectrometry, 6C54
- detmn. of pentaerythritol tetra-(3,5-di-*t*-butyl-4-hydroxyhydrocinna-mate) in, by g.l.c., 8F14
- extraction of Dastib-845 from, 1F5
- Polyethylenepolyamines**, purification of, as naphthalene-2-sulphonate derivatives, 5C30
- Poly(ethylene terephthalate)**, detmn. of free acetaldehyde in, by head-space g.c., 5F12
- detmn. of terminal carboxy-groups in, by polarography, 5C109
- Polygalacturonase**, assay of, blue pectin as substrate in, 11D252
- Polyglycols**, analysis of, by fast-atom-bombardment m.s., 7C79
- Polyimides, aromatic**, characterization of, by hydrazinolysis, 1C37
- Polymers**, analysis of, by carbon-13, 4C91
- by high-field n.m.r., review, 11A8
- by near-i.r. reflectance spectrometry, 5J116
- by n.m.r. spectrometry, review, 5C104
- by pyrolysis g.c., 10J65
- by pyrolysis - g.l.c., pyrolyser for, 3J54
- electron micro-probe in, 1C33
- on silica films, by Auger electron spectroscopy and X-ray photoelec-tron spectroscopy, 2B50
- pyrolysis - g.c. in, review, 5C102
- Raman spectrometry in, review, 5C101
- thermal volatilization in, review, 5C103
- with ultra-centrifuge, review, 12C69
- analysis of mixtures of, by difference i.r. spectrophotometry, 9C79
- analysis of synthetic, by pyrolytic i.r. spectrometry, pyrolytic g.c. and energy-dispersive X-ray micro-probe analysis, 12C75
- detection of, on wool, by staining - fluorescence microscopy, 4C87
- detmn. of, by h.p.l.c., refractometric detector for, 6J39
- in human serum albumin, by electrophoresis, 4D252
- detmn. of additives in, review, 8C85
- detmn. of free radicals in films of, by e.s.r., 7C95
- detmn. of hydroxy-groups in, 3C68
- detmn. of shrink-resist, on wool, by dye staining, 7C89
- detmn. of vinyl alcohol in vinyl ter., i.r., 11C76
- elementary analysis of, ion chromatography in, 7J46
- identn. of, by difference gel-permeation chromatography, 2J29
- by direct pyrolysis - m.s., library for, 9C83

- Polymers**, identn. of, —continued
in disposable medical and surgical materials, by pyrolysis - g.c., 2E54
measurement of thickness of films of, on metal surfaces, by FT i.r. emission spectrometry, 10J105
n.m.r. of high-mol.-wt., review, 7C91
sepn. of, by h.p.l.c., t.l.c. and gel-permeation chromatography, 8C83
by micro-column exclusion chromatography, refractometric detector for, 6J45
surface analysis of, spectroscopic, review, 12C68
- Poly(methyl methacrylate)**, detection of end-groups in, by n.m.r. spectrometry, 6C55
detmn. of solvent inclusions in films of, carbon-14 in radiometric, 10C77
- Polyinosic**, detmn. of, in blends with cotton, dissolution method for, 11C73
- Polyols**, detmn. of, in natural waters, Folin - Ciocalteu phenol reagent in, 4H74
detmn. of hydroxy-groups in, by near-i.r. spectrophotometry, review, 10J104
identn. of cyclic acetals in, by m.s., 2C11
- Polyoxyethylene dodecyl ether**, detmn. of, in water, by a.a.s., 3H67
- Polyoxyethylene glycol**, analysis of, by fast-atom-bombardment m.s., 7C79
detection of, in wood, colour tests for, 6C49
detmn. of, in pharmaceutical preparations of proteins, by laser nephelometry, 6E64
sepn. of, by h.p.l.c. of bis-(2,4-dinitrophenyl) derivatives, 7C17
- Polyoxyethylene glycol 20M**, analysis of thermal decomposition products of, in g.l.c., titrimetric, 6J99
- Polyoxyethylene glycols**, detmn. of, in water, by photometry, 5H84
detmn. of mol.-wt. distribution of, 8C86
sepn. of, by h.p.l.c. on alumina, 11D198
- Polyoxyl 8 stearate**, identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
- Polyoxypropene glycol**, analysis of, by fast-atom-bombardment m.s., 7C79
- Polyoxypropene glycols**, detmn. of mol.-wt. distribution of, 8C86
- Polypeptides**, detmn. of, by immunoassay, 5D192
by r.i.a. and immunoradiometric assay, 1D158
detmn. of hormonal, in pharmaceutical preparations, 9A2B
detmn. of pancreatic, by r.i.a., cross-reactivity of peptide YY and neuropeptide Y in, 2D181
in plasma, by r.i.a., 6D230
- Polyphenols**, detmn. of, in beer, review, 6F75
in musts, wine and sherry, by spectrophotometry, 7F88
in natural waters, Folin - Ciocalteu phenol reagent in, 4H74
in wine or standard soln., dimethylformamide in sample storage for, 8F59
- Polyphosphates**, detmn. of, in bacterial cells, 4D155
in environmental materials, spectrophotometric, 12H7
in food, spectrophotometric, 9F18
detmn. of trace metals in, by a.c. polarography, 5G19
- Polypropene**, detmn. of additives in, by i.r. spectrometry, 2C67
detmn. of BHT in, by t.l.c., 2F11
detmn. of light stabilizer in, by spectrophotometry, 5C105
detmn. of mol. wt. average and distribution in, 11C75
- Polysaccharides**, analysis of, by h.p.l.c. - m.s., 7J37
detmn. of, by methylation - g.c., 12D113
in food, by electrophoresis, 4F12
in plants, by molecular-absorption spectrometry, a.a.s. and g.c., 5F35
detmn. of 3,6-anhydrogalactose in algal, spectrophotometric, 3D96
detmn. of O-methylaldoses in, by g.l.c. and g.l.c. - m.s., as O-isopropylidene derivatives, 8D108
detmn. of non-starch, in cocoa powder, by hydrolysis - g.l.c., 6F71
in foods, 6F12
detmn. of water in, 2D130
identn. of D-mannosamine in, by g.c., 7D110
purification of methylation reaction products of, by adsorption on Sep-Pak cartridges, 4D146
- Polyselenides**, sepn. of cyclic organic, by h.p.l.c., 9C43
- Polysorbates**, identn. of, in pharmaceutical preparations, by h.p.l.c., 2E53
- Polystyrene**, detection of end-groups in, by n.m.r. spectrometry, 6C55
detmn. of α -methylstyrene in, by g.l.c., 6F22
detmn. of mol. wt. distribution of, by supercritical-fluid chromatography, 5C107
detmn. of pyrolysis products of, by automated thermal-desorption pyrolysis - g.c., 9J54
identn. of antioxidants in, by t.l.c., 2C72
sepn. of oligomers of, by h.p.l.c., 4C90, 11C74
- Polysulphides**, sepn. of cyclic organic, by h.p.l.c., 9C43
- Poly(tetrafluoroethylene)**, detmn. of uranium in, by fission counting, 4B88
- Polysulfonates**, detmn. of, after sepn. from other sulphur anions by ion chromatography, 11B104
- Polyurethanes**, analysis of foams of, by pyrolysis - g.c., 9C81
analysis of pyrolysis products of, by g.l.c., 5C49
analysis of reaction mixtures in synthesis of, by gel-permeation chromatography, 9C82
detmn. of hydroxy-groups in dimethylformamide-soluble, by potentiometric titrimetry, 3C69
- Poly(vinyl acetate)**, analysis of film of, on stainless-steel, by i.r. laser photoacoustic spectrometry, 4C94
- Poly(vinyl chloride)**, analysis of volatile compounds released from, trapping adsorbents for g.c. - m.s., 4C93
detmn. of plasticizers in, by spectrophotometry, 5C108
- Poly(vinylpyrrolidone)**, detmn. of nitrogen in, Kjeldahl, 9C84
- Poppy**, detmn. of linoleic acid in seeds of opium, chromatographic, 10D129
detmn. of thebaine in capsules of, by computerized t.l.c., 9E4
- Populus diversifolia**, sepn. of phenolic acids in, by h.p.l.c., 2D134
- Populus tremuloides**, identn. of carboxylic acids in pyrogenous liquors from, by h.p.l.c., 12C61
- Pork**, detmn. of fat, protein and water in, by near-i.r. spectrophotometry, 1F10
detmn. of nitrofurazone and furazolidone in, by h.p.l.c., 2F14
detmn. of other meats added to, by h.p.l.c., 12F16
detmn. of sulphonamides in, by t.l.c., 2D101, 2D102
- Porphine**, sepn. of, by gel-permeation chromatography, 3D214
—, **octaethyl-**, sepn. of, by gel-permeation chromatography, 3D214
—, **tetra-acetyltetraethyl-**, sepn. of, by gel-permeation chromatography, 3D214
—, **tetraphenyl-**, sepn. of, by gel-permeation chromatography, 3D214
—, **5,10,15,20-tetraphenyl-**, derivatives, sepn. of o-substituted, by h.p.l.c., 9D226
- Porphobilinogen**, detmn. of, by isotachopheresis, 3D215
in urine, 4D273
- Porphyris**, detmn. of, in faeces and urine, by magnetic circular dichroism, 10D221
in urine, by chromatography, sample preparation procedure for, 9D225
by h.p.l.c., 6D270
by h.p.l.c. on tributyl phosphate-treated column, 2D212
detmn. of free erythrocyte, in screening for lead poisoning, 2D211
detmn. of pentacarboxylic, derived from uroporphyrinogen III, in urine, by h.p.l.c., 7D210
sepn. of, in urine, by h.p.l.c., 4D268, 4D269
by t.l.c., 10D223
sepn. of acetyl-substituted by h.p.l.c., 8D213
sepn. of isomers of, by reversed-phase h.p.l.c., 7D209
—, **vanadyl-**, identn. of, in crude petroleum, by liquid chromatography - a.a.s., 12C44
- Port**, detmn. of 5-hydroxymethyl-2-furaldehyde in, by h.p.l.c., as indication of addition of fructose, 9F51
- Potassium**, detmn. of, by graphite-furnace a.e.s., 9B15
by ICP a.e.s., interference by other alkali metals in, 6B35
by ion chromatography, 4B32
in blood, ion-selective electrodes in, review, 5D17
potentiometric, 10D21
serum and plasma, by ion-selective electrode, 10D19
with Ektachem 400 Analyzer, 6D9
in blood or urine, by ion-selective electrode, 5J171
in body fluids, ion-selective electrodes in, 12D18
in Chinese cabbage, by flame emission spectrometry, digestion methods for, 10F51
in chlorostannates, by a.a.s., 2B53
in clinical analysis, ion-selective electrodes or flame photometry in, 11D14
in coal, by scanning electron microscopy - energy-dispersive X-ray spectrometry, 5C79
in erythrocytes and plasma of pregnant women, by PIXE, 12D17
in fertilizers, by flame photometry, 4G17
by gravimetry, flame photometry or a.a.s., extractant for, 11G16
preparation of test soln. for, 6G14, 6G15
in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
in forage, precision and quality control of, 5G21
in geological materials, by XRF, 4B192
in industrial soln., electrode for, 1B16
in instant oatmeal product, by ion chromatography, 5F2
in leucocytes, by flame photometry, 5D16
in maize oil, by a.a.s., sample preparation for, 2F42
in meat products, by a.e.s., 10F30
in physiological fluids, by direct potentiometry, errors in use of valinomycin electrodes for, 4D29
in plants, by hydrochloric acid extraction, 11G1
in plasma, by direct potentiometry, effects of residual liquid junction potential in, 10D23
serum and whole blood, with microprocessor-controlled ion-selective electrodes, 7D19
in plasma and urine, by potentiometry, 1D12
in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
in potable water, by a.a.s., 9H40
in rocks, by XRF, 9B82
in seeds and grains, by dil. acid extraction and a.a.s., 9G3
in serum, automated analyser for, 9D10
by flow-injection analysis - a.a.s., 12D19
by flow injection - ICP a.e.s., 10D20
by potentiometry with valinomycin-based membrane electrode, 1D14
electrode system for, 6D30
in serum and urine, by ICP a.e.s., 1D17

- Potassium**, detmn. of, in serum and urine, —continued
 ion-selective-electrode analyser for, 9D18
 in silicates, by a.a.s., solubilization in, 1B155
 in slate, by flame-photometric emission, 3B24
 in snow and ice, by ion chromatography, 8H43
 in soil, 6G11, 10G10
 by XRF, 4J92
 extractants for, 11G11
 in tears, by a.a.s., 2D15
 in tellurium, by n.a.a., 1B103
 in triuranium octaoxide, by a.a.s., 4B97
 in urine, after collection on filter-paper, 6D22
 sample stability in, 6D29
 in wine, by flame photometry and a.a.s., 12F36
 ion-selective electrodes for, 2J110
 reagent systems for spectrophotometric, 11B10
 titrimetric, ion-selective indicator electrodes for, 3J104
 detmn. of ionic, in blood, integrated-circuit sensor in, 8D18
 detmn. of trace, in tungsten, by flame spectrometry and polarography, 7B102
 extraction of, crown ether derivatives of ferrocene in, 9B14
 from grapes, 4F55
 in presence of non-ionic surfactant, 7B23
 ion-exchange behaviour of, with crown ether - tungstophosphoric acid ppt., 11B20
 sepn. of, from lithium and sodium, by cation exchange in electric field, 8B22
 solvent extraction of, with derivatives of dibenzo-18-crown-6, 7B24
 storage of urinary, on filter-paper, 6D21
- Potassium bromate**, detmn. of, in foods, by ion exchange - colorimetry, 12F10
 detmn. of oxygen-18 enrichment of, by pyrolysis - g.c. - m.s., 10B113
- Potassium chlorate**, detmn. of oxygen-18 enrichment of, by pyrolysis - g.c. - m.s., 10B113
- Potassium chloride**, detmn. of, by t.l.c., 9B16
 detmn. of iron in, extraction - fluorimetric, 3B88
 detmn. of scandium in, by fluorimetry, 4B78
 detmn. of zinc in, extraction - spectrophotometric, 11B34
- Potassium chromate**, analysis of, by X-ray photoelectron spectrometry, 5B199
- Potassium dihydrogen phosphate**, detmn. of calcium and sodium in, by emission spectrometry and a.a.s., 10B99
- Potassium ferrocyanide**, detmn. of, graphite electrode in kinetic - catalytic, 8B94
- Potassium glutamate**, detmn. of, chromatographic, 6E63
- Potassium hexacyanoferrate**, detmn. of, by titration with manganese, 10A10
- Potassium hydroxide**, detmn. of, by t.l.c., 9B16
- Potassium iodide**, detmn. of, in presence of pharmaceutical substances, titrimetric, with mercuric nitrate, 2E48
 in table salt, 8F49
- Potassium nitrate**, detmn. of cadmium in, masking agent for spectrophotometric, 2B28
- Potassium oxide**, detmn. of, in iron-ore concentrates, by XRF, 11B130
 in solid waterglass, by XRF, 1B70
- Potato crisps**, detmn. of sodium chloride in, by titrimetry, a.a.s. and direct-coupled plasma-emission spectrometry, 7F74
- Potatoes**, analysis of, by n.a.a., mineralization in, 5G1
 characterization of cultivars of, by electrophoresis, review, 11G3
 detmn. of antioxidants in dried, by t.l.c. or h.p.l.c., 8F12
 detmn. of chlorogenic acids in, by h.p.l.c., 9F43
 detmn. of dietary fibre in, 2F1
 detmn. of diquat and paraquat in, by g.l.c., 6G29
 detmn. of herbicides in, by t.l.c., 7G26
 detmn. of lipid peroxidation in flakes of, by g.l.c. of TMS derivatives, 10F52
 detmn. of maleic hydrazide residues in, by g.c., 7F73
 extraction of glycoalkaloids from dehydrated, 1F17
 identn. of glycoalkaloids of, by t.l.c., standard for, 7G9
- Potentiometry**, cells connected in series in, sensitivity of, 1J118
 cells for, definition of response time of, 12A18
 computerized automated system for, 2J122
 differential electrolytic, bromine and anhydrous acetic acid in, 4J172
 lead acetate and anhydrous acetic acid in, 4J173
 high-pressure, high-temp. cell for, 11J142
 in study of metal speciation, review, 5J189
 ion-selective electrodes for, liquid-junction effects in, review, 7J125
 ion-selective electrodes in direct, 7J120
 microbe-based sensors for, review, 1J101
 precision of direct, cells connected in series for improved, 5J165
 with ion-selective electrode, double-known-addition method in, 5A41
- , **stripping**, review, 11J138
- Potsherds**, analysis of, by i.r. spectrometry, 1C32
- Poultry**, detmn. of calcium in, titrimetric with EDTA, 2F15
 detmn. of monensin in, by t.l.c., 5F20
 detmn. of organochlorine pesticide residues in fat of, by g.c., 12F17
 detmn. of testosterone in, by t.l.c., 8F29
- Powders**, detmn. of scandium, calcium and oxygen in, by scanning electron microscopy and energy-dispersive X-ray spectroscopy, 11J81
- Practolol**, detmn. of, by direct anodic rotating-disc-electrode voltammetry, 7E31
- Practolol**, detmn. of, —continued
 in plasma, by h.p.l.c., 2D90
- Pralidoxime chloride**, detmn. of, with metabolites, in injections, by h.p.l.c., 1E40
- Pralidoxime mesylate**, detmn. of, in injection soln. by h.p.l.c., 2E50
- Praseodymium**, detmn. of, by h.p.l.c. with voltammetric detection, 6B82
 by spectrophotometry, 3B50
 by X-ray spectroscopy, 11B44
 in mixtures, by n.m.r., 3B55
 in monazite sand, by spectrophotometry, 11B46
 in ores, by polarography of catalytic wave, 10B63
 in uraniferous rock, by n.a.a., 10B61
 extraction of, in presence of perchlorate, diantipyrinylmethane in, 5B97
 monitoring of, adsorbed on montmorillonite clay, optoacoustic, 11B50
 purpurin as reagent for, 5B25
 sepn. of, by cation exchange on silica, 12B2
 resin in, 2B38
- Prazepam**, detection of hydrolysis products of, by Bratton - Marshall reaction after thermal de-alkylation, 5D43
 detmn. of, and its metabolites by r.i.a., 4D105
- Praziquantel**, detmn. of, in serum, by h.p.l.c., 2D105
- Prazosin**, detmn. of, in biological fluids, by ion-exchange h.p.l.c., 7D77
 in blood plasma, by h.p.l.c., 1D60
 by t.l.c., 4D120
- Prealbumins**, detmn. of, in body fluids, by r.i.a., 6D250
 in cerebrospinal fluid, by electro-immunoassay, 10D201
- Prednisolone**, detmn. of, in serum, by liquid chromatography, sample extraction for, 7D54
 by r.i.a., 1D54
 prevention of protein binding in, 6D72
 in tablets, 2E22
 colorimetric, in dissolution studies, 9E27
- Prednisone**, detmn. of, in equine urine, by derivatization - g.c. - m.s., 10D77
 in serum, by liquid chromatography, sample extraction for, 7D54
- Pregna-1,4-diene-3,20-dione, 11 α ,17 α ,21-trihydroxy-16 α -methyl-**, detmn. of, in admixture with the corresponding 4-ene steroid, by dual-wavelength u.v. spectrophotometry, 9D138
- Pregnancy-associated plasma protein A**, detmn. of, in serum, by enzyme immunoassay, 1D157
 by two-site enzyme immunoassay, 6D263
- Pregnenediol 3 α -glucuronide**, detmn. of, in urine, in presence of oestrone 3-glucuronide, by immunoassay, 4D182
- 5 β -Pregnane-3 α ,20 α -diol 3 α -glucuronide**, detmn. of, in urine, by fluorescent enzyme immunoassay, 9D140
- 5 β -Pregnan-20-one, 3 α ,17 α ,21-trihydroxy-**, detmn. of, and its 3-glucuronide, by enzyme immunoassay, prep. and labelling of haptens for, 9D142
- Pregn-4-ene-3,20-dione, 17,21-dihydroxy-**, detection of, by enzyme immunoassay, 1D115
 detmn. of, by immunoassay, production of monoclonal antibody for, 11D153
 in blood serum, by fluoro-immunoassay, 4D199
 in plasma, by enzyme immunoassay, 8D139
 by h.p.l.c., 11D145
 in saliva and serum, by fluorescence polarization immunoassay, 4D196
 in serum, by enzyme immunoassay, 12D143
 by h.p.l.c., 10D145
- , **6 β ,11,17,21-tetrahydroxy-**, detmn. of, in urine, by h.p.l.c., 7D150
- Prenalolol**, detmn. of, colorimetric and polarographic, 8E68
 in plasma and urine, by h.p.l.c., 12D90
- Prenalolol hydrochloride**, detmn. of, in biological fluids and pharmaceutical preparations, 2E34
- Preservatives**, detmn. of, in delicatessen salads and mayonnaise, by h.p.l.c., 9F16
 in fatty foods, by h.p.l.c., 10F22
 in foods, non-aqueous titrimetric, 10F21
- Prilocaine**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Primaquine**, detmn. of, in presence of amodiaquine, in pharmaceutical preparations, by spectrophotometry, 7E39
 in urine or plasma, by h.p.l.c., 8D83
- Primaquine phosphate**, as redox indicator, 6A5
 detection of, by t.l.c., 8E13
- Primidone**, alkylation studies of, by g.c., 3E22
 detmn. of, in biological fluids, by h.p.l.c., 5D60
 in blood, by automated fluorimetry or photometry, 4J10
 in plasma, 6D77
 by fluorescence immunoassay, 6D78
 in saliva, for therapeutic monitoring, 10D83
 in serum, by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
 by h.p.l.c., 8D45
 by reversed-phase h.p.l.c., 8D47
 by semi-automated enzyme immunoassay, 4D90
 in serum and plasma, by fluoro-immunoassay, 1D50
- Printing-ink solvents**, sampling of, in air, 4H40
- Proanthocyanidins**, sepn. of malt and hop, by liquid chromatography, 10F59

- Probucol**, detmn. of, in plasma, by h.p.l.c., 6D130
- Procainamide**, detmn. of, absorptiometric, 11E31
and its *N*-acetyl metabolite, in serum, by h.p.l.c., 9D86
by direct anodic rotating-disc-electrode voltammetry, 7E31
by t.l.c., 2J39
in serum, by fluoro-immunoassay, 12D72
by h.p.l.c. and enzyme-multiplied immunoassay, 4D118
by t.l.c. - reflectance scanning, 11D94
in serum and urine, by t.l.c., 6D110
electrophoresis of, indicator for, 6E2
- , ***N*-acetyl-**, detmn. of, in serum, by fluoro-immunoassay, 12D72
by h.p.l.c. and enzyme-multiplied immunoassay, 4D118
by t.l.c. - reflectance scanning, 11D94
in serum and urine, by t.l.c., 6D110
- Procaine**, detection of, in horse urine, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
in illicit narcotics, by g.l.c., 11E4
detmn. of, absorptiometric, 11E31
in cocaine, by h.p.l.c., 8E12
in pharmaceutical preparations, 11E32
in pharmaceuticals, by i.r. spectrometry, 5E40
in urine, by g.l.c. - e.c.d., 2D49
electrophoresis of, indicator for, 6E2
measurement of stability of, by h.p.l.c., 2E33
- Prochlorperazine maleate**, detmn. of, spectrophotometric, 8E47
- Procydine hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- Progabide**, detmn. of, in plasma, by h.p.l.c., 2D67
- Progesterone**, detmn. of, by r.i.a., sepn. of free from bound in, 1D118
in blood, by r.i.a., pre-treatment effect on, 5D153
in milk, by enzyme immunoassay, 6D188
in plasma, by fluoro-immunoassay, phenanthroimidazol-2-amine in, 5D154
in plasma or serum, errors in kit for, 10D144
in saliva, by r.i.a., 5D156
in serum, by chemiluminescent energy-transfer immunoassay, 4D6
by r.i.a., kit for, 9D141
reference material for, 5D143
detmn. of free, in plasma, by rate dialysis, 8D128
detmn. of ratio to testosterone of, in bloodstains, for sex identn., 6D186
purification of partly degraded radiolabelled, by partition, 8D129
sepn. of, from other steroids of blood plasma, by h.p.l.c., 4D179
- , **17-hydroxy-**, detmn. of, in serum, by h.p.l.c., 10D145
sepn. of, from other steroids of blood plasma, by h.p.l.c., 4D179
- , **17 α -hydroxy-**, detmn. of, in blood, by fluorescence enzyme immunoassay, 6D194
- Progestogens**, detmn. of, in blood serum, by h.p.l.c., 4D186
- Proguanil**, detmn. of, by polarography, 6E56
- Proinsulin C-peptide**, detmn. of, in plasma and urine, by r.i.a., review, 6D228
- Prolactin**, detmn. of, by r.i.a., with immobilized antibody, 5D5
in pituitary gland of rat, by enzyme-linked immunosorbent assay, 9D207
in serum, by two-site immunoradiometric assay, 7D194
polyoxyethylene glycol in r.i.a. for, 8D197
- Prolamins**, amino-acid sequencing of, of cereals, by ion-exchange chromatography, 9G6
detection of, by cation-exchange chromatography, 2G3
- Proline**, detection of, by h.p.l.c., with pre-column derivatization, 10D167
detection of bitter products of heating sucrose with, by gel chromatography and h.p.l.c., 11F6
detection of enantiomers of, by ligand chromatography, 6D218
detmn. of, by fluorimetry, 3D145
by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
in flour, by ion exchange - spectrophotometry or - isotope dilution, 11F15
- , **hydroxy-**, detmn. of, by fluorimetry, 3D145
by t.l.c. - fluorimetry, 5D181
in flour, by ion exchange - spectrophotometry or - isotope dilution, 11F15
- , **4-hydroxy-**, detection of, by h.p.l.c., with pre-column derivatization, 10D167
detmn. of, in meat, toluene in, 6F34
sepn. of *cis*- and *trans*-isomers of, by t.l.c., 11D171
- , ***N*-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
in malt or beer, by g.l.c., 4F70
in tobacco, by g.c., 1D75
- Promazine**, detmn. of, by anodic voltammetry, 10E24
ferricyanide in titrimetric, 11E26
in urine, by oxidation in aq. and nitromethane soln., 8D54
spectrophotometric, 8E47
sepn. of, by ion-pair h.p.l.c., 12E37
t.l.c. of, and its metabolites, 10E27
- Promethazine**, detmn. of, by anodic voltammetry, 10E24
ferricyanide in titrimetric, 11E26
in compound caramphen tablets, by spectrophotometry, 9E43
in dosage forms, by synchronous luminescence spectrometry, 6E52
in pharmaceutical preparations, sodium tetraphenylborate in potentiometric, 3E20
- Promethazine**, detmn. of, —continued
in plasma, by h.p.l.c., 1D62
in urine, by oxidation in aq. and nitromethane soln., 8D54
spectrophotometric, 8E47
sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Promethazine hydrochloride**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E39
in tablets, injections or oral soln., by oxidation - u.v. spectrophotometry, 9E37
- Prometryne**, detmn. of, in water, by g.l.c. after sorption on porous polymer, 5H83
- Propachlor**, sepn. of metabolites of, in biological fluids, by ion-exchange chromatography, 2D123
- Propafenone**, identn. of metabolite of, in serum and urine, by g.l.c. and g.c. - m.s., 5D82
- Propane**, detmn. of, in air, grab-sampling technique for, 12H34, 12H35
- Propane-1,3-diamine**, detmn. of, chloranil in spectrophotometric, 11D167
in urine, by capillary g.c., 12D160
- Propane-1,2-diol**, detmn. of, in plasma and urine, by g.l.c., 7D98
in soft drinks, by g.c., 4F69
sepn. of monomer, dimer and trimer of, by capillary g.c., 5J55
- Propane-1,3-diol, 2-ethyl-2-(hydroxymethyl)-**, detmn. of, in alkyl resins, by g.c., 3C70
- Propane-1,2-diol dinitrate**, detmn. of, by linear-sweep voltammetry, 5C116
- Propanil**, detmn. of, in soft drinks, by h.p.l.c., 7F82
- Propanol**, detmn. of, in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- Propan-2-ol**, detmn. of, by g.l.c. - refractometry, 3C2
in gasoline - alcohol mixtures, by liquid chromatography, 10C56
in insulating materials, by dynamic head-space g.c., 5C111
in methyloxiran polyethers, by g.l.c., 2C70
in soft drinks, by g.c., 4F69
- , **1,3-bis(theophyllin-7-yl)-**, detmn. of, in xanthinol nicotinate preparations, by densitometry after t.l.c., 8E49
- Propanol, 2-methyl-**, detmn. of, in alcoholic and non-alcoholic beverages by g.l.c., 4F62
- Propantheline**, detmn. of, in serum, by h.p.l.c., 11D90
- Propazine**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Propene, 3-chloro-**, detmn. of, in blood, by g.l.c., 6D135
detmn. of chlorinated organic products formed during manufacture of, in air, by g.l.c., 7H18
- , **1,3-dichloro-**, detmn. of isomers of, in blood, by g.l.c. and g.c. - m.s., 2D124
- Propenoic acid, halo-, methyl ester**, sepn. of, by capillary-column g.c., 10C22
- Propiconazole**, detmn. of, in plants, soil and waters, by g.c., 1G13
- Propineb**, detmn. of, in vegetables, fruit and beer, 8G14
- Propiomazine**, sepn. of enantiomers of, by liquid chromatography, chiral phase for, 6E35
- Propionaldehyde**, detmn. of, in methyloxiran polyethers, by g.l.c., 2C70
in propylene carbonate and propylene oxide, polarographic, 9C38
in tobacco smoke, by hydrazone derivatization - h.p.l.c., 8D112
- Propionamide, N-(3,4-dichlorophenyl)-N-(trans-2-dimethylaminocyclopentyl)-**, detmn. of, and its *N*-demethyl metabolite, in canine serum, by g.c., 10D94
- , ***N*-(6-methoxy-2,4-xylyl)-3-(2-methylpiperidino)-**, detmn. of, in plasma, by h.p.l.c., 5D85
- Propionate, 3-dimethylsulphonio-**, sepn. of, in plants, by cation-exchange h.p.l.c., 12D158
- Propionic acid**, detmn. of, by g.c., 3C14
by g.c. and h.p.l.c., 4F16
by h.p.l.c., electrokinetic detector for, 4C18
by h.p.l.c. with electrokinetic detection, 4C19
in air, by g.l.c., stationary phases for, 8H23
in bread, by h.p.l.c., 7F35
in bread and cakes, by g.c., 4F22
in presence of other acids, by g.l.c., 8D115
in waste water, by g.l.c., 3H77
- , **2-chloro-, alkyl ester**, sepn. of, by g.l.c., 4C10
- , **3-chloro-, alkyl ester**, sepn. of, by g.l.c., 4C10
- , **chloro-, ester**, detmn. of, by g.c., 9C19
- , **dimethylsulphonio-, ester**, detmn. of, in seaweed, by g.l.c., 8D104
- , **2-halo-**, detmn. of, bacterial dehalogenases in enzymic, 2C20
- , **halo-, methyl ester**, sepn. of, by capillary-column g.c., 10C22
- , **2-hydroxy-3-(4-hydroxy-3-methoxyphenyl)-**, detmn. of, in urine, by g.l.c., 6D204
- Propionic acid alkenyl esters**, sepn. of, by g.c. on polar and non-polar capillary columns, 5C17
- Propionic acid alkyl ester**, sepn. of, by g.l.c., 4C10
- Propionic acid calcium salt**, detmn. of, in bread and cakes, by g.c., 4F22
- Propionic acid methyl ester**, detmn. of, by g.c., 9C19
- Propionic acid sodium salt**, detmn. of, in bread and cakes, by g.c., 4F22
in foods, non-aqueous titrimetric, 10F21
- Propolis**, detmn. of flavonoids in extracts of, by h.p.l.c., 11C57
- Propoxur**, detmn. of, by h.p.l.c. with post-column reaction, 7G36
in vegetables, spectrophotometric, 8F46
in waters, by h.p.l.c., 7H70
- Propranolol**, detmn. of, by direct anodic rotating-disc-electrode voltammetry, 7E31

Propranolol, detmn. of.—*continued*

- in biological fluids, by ion-exchange h.p.l.c., 7D77
- in plasma, by h.p.l.c., 1D56
- in propranolol hydrochloride, by t.l.c. and i.r. spectrophotometry, 4E49
- in serum, by t.l.c. - reflectance scanning, 11D94
- in tablets, spectrophotometric, 11E34
- in tissues or plasma, by r.i.a., 7D78
- detmn. of enantiomers of, in serum, by h.p.l.c., 11D88
- sepn. of enantiomers of, by h.p.l.c., 5E41
- sepn. of ring-hydroxylated derivatives of, by g.c. - m.s., 6D106
- Propranolol hydrochloride**, assay of, by t.l.c. and i.r. spectrophotometry, 4E49
- Propranolol sulphate**, 4'-hydroxy-, detmn. of, in urine, by h.p.l.c., after extraction as tetrabutylammonium ion pair, 8D67
- Propylamine**, S-adenosyl-3-methylthio-, sepn. of, in liver, heart and brain, by h.p.l.c., 2D223
- Propylthiouracil**, detmn. of, in serum, by micro h.p.l.c., 7D94
- Propyphenazone**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E27
- Prostacyclin**, detmn. of, by h.p.l.c., 6D170
- Prostaglandin A₁**, detmn. of, in alprostadiol, by h.p.l.c., 9E12
- Prostaglandin B₁**, detmn. of, in alprostadiol, by h.p.l.c., 9E12
- Prostaglandin E₁**, detmn. of, by g.c. - m.s., 1D103
- Prostaglandin E₁**, detmn. of, in bulk drug and pharmaceutical preparations, by h.p.l.c., 9E11
- detmn. of prostaglandins A₁ and B₁ in, by h.p.l.c., 9E12
- Prostaglandin E₂**, detmn. of, and its main metabolite, in biological materials, by h.p.l.c., 6D169
- in plasma, by g.c. - m.s., 7D128
- in urine, by g.c. - m.s., 11D133
- by r.i.a., 8D119
- detmn. of metabolites of, in plasma, by r.i.a., 8D124
- Prostaglandin F_{2α}**, g.l.c. of, thermal stability in, 4D164
- Prostaglandin F_{1α}**, 6-oxo-, detmn. of, by h.p.l.c., 6D170
- in urine, by h.p.l.c. and r.i.a., 11D132
- Prostaglandins**, detection of, by t.l.c. - autoradiography, 12D127
- detmn. of, as oxo-derivatives, by h.p.l.c., 7D129
- by g.c. - m.s. of pentafluorobenzyl ester dimethyl(propyl)silyl ether derivatives, 12D124
- by m.s., bio-assay and immunoassay, review, 6D167
- by r.i.a., iodinated tracers in, 12D126
- review, 10D179
- in alveolar macrophages, by g.l.c., 12D125
- in biological fluids, 9A1B
- by g.c. - m.s., 10D132
- in biological materials, by g.c. - m.s., 6D166
- review, 11D134
- review, 6D168, 8D121
- detmn. of enantiomers of intermediates in synthesis of, by n.m.r., 5D129
- detmn. of F-series, in semen, by g.l.c. - m.s. of methyl - trimethylsilyl derivatives, 4D166
- detmn. of metabolites of, in biological materials, by t.l.c., 2D140
- sepn. of, by h.p.l.c., 1D101, 11D135
- by t.l.c., 2D142
- contamination in, 2D141
- plates for, 4D165
- from thromboxane B₂, by reversed-phase liquid chromatography, 8D122
- in plasma, by t.l.c., 1D102
- sepn. of 15-methyl F_{2α} methyl ester isomers of, by h.p.l.c., 8D118
- Prostanoic acid**, 9α,11α-dihydroxy-15-oxo-2,3,4,5,20-pentanor-19-carboxy-, detmn. of, in urine, by g.c. - m.s., 9D127
- Prostanoids**, detmn. of, by g.c. - m.s., review, 3D110
- Proteinase**, assay of, from *Bacillus pumilus* and *Escherichia coli*, effect of penicillin on, 11D250
- linked enzyme, 6D308
- of *Bacillus subtilis*, azocoll in colorimetric, 9D267
- spectrophotometric, 3A2
- synthesis of substrate for, 11D255
- assay of calcium-dependent, in muscle, 1D230
- assay of trypsin-like, of saliva, serum and meconium, fluorimetric, 11D249
- detection of, by isoelectric focusing or electrophoresis, visualization method for, 9D245
- in polyacrylamide gels containing covalently bound substrates, 9D268
- detection of inhibitors of, by electrophoresis, 4D337
- enzymic, 9D275
- α₁-Proteinase**, detmn. of inhibitor of, in serum, by size-exclusion chromatography, 2D235
- Proteinase A**, assay of, from yeast, by fluorimetry, 5D248
- Protein disulphide-isomerase**, assay of, 3D278
- Protein kinase**, assay of, radiochemical, 8D237
- Proteins**, 7D258B
- analysis of, by field-flow fractionation, 6J14
- by h.p.l.c., adsorption losses in capillary tubing in, 7D187
- biospecific affinity chromatography and electrophoresis, 6D18
- by Raman spectrometry, 6D241
- by two-dimensional electrophoresis, review, 7D192

Proteins, analysis of.—*continued*

- in food, 11F47B
- of human aqueous humour, by gel electrophoresis, 10D189
- of measles virus, by isoelectric focusing, 3D186
- column chromatography of, modified packings for, 9D204
- concentration of, by electrophoresis in non-linear pH gradient, 11D189
- on polyacrylate gel, 3D8
- detection of, by electrophoresis, 11D187
- by iodination, reagents for, review, 10D177
- by polyacrylamide gel electrophoresis with silver staining, 3D225
- in saliva, by polyacrylamide gel electrophoresis, 3D177
- in sodium dodecyl sulphate - polyacrylamide gels, interference by skin proteins in, 8D189
- in urine, test strips for, 4D19
- in urine and serum, on polyacrylamide gels, silver stain for, 9D202
- on blots, immunochemical, 11D188
- on cellulose nitrate, immunological, 9D199, 9D200
- on nitrocellulose, by immunoblotting, 3D181
- on polyacrylamide gels, sensitive silver stain for, 8D188
- detection of brain, by immuno-detection on nitrocellulose blots after polyacrylamide gel electrophoresis, 10D188
- detection of phosphorus-containing, by polyacrylamide gel electrophoresis, 3D178
- detection of polymorphic, in bloodstains, by isoelectric focusing, silver stain for, 7D190
- detection of traces of, in dye- or silver-stained polyacrylamide gels, enhancement of sensitivity of, 5D200
- detmn. of, by direct potentiometry, 7D186
- by electrofocusing, Immobiline system in, 2D193
- by electrophoresis, removal of detergents in, 4D245
- staining in, 4D238
- by enzyme-linked immunosorbent assay, 1D36
- by h.p.l.c., electrochemical detector for, 11D192
- by immunoassay with acridinium esters as chemiluminescent labels, 2D205
- by immunoassay with photoacoustic detection, 3D185
- by immuno-nephelometry and immuno-turbidimetry, review, 4D243
- by isoelectric focusing, staining in, 4D246
- by Lowry method, interference by ammonium sulphate in, 11D193
- linearization of calibration graph in, 8D192
- by n.m.r., 5F5
- by polyacrylamide gel electrophoresis, resolution of overlapping components in, 6D237
- by r.i.a. with iodinated imidoester, 1D4
- by ring - disc electrochemical titration with bromine or hypobromite, 11D191
- by spectrophotometry, 1D217
- by spectrophotometry of silver eluted from autoradiograms after electrophoresis, 4J48
- by two-dimensional electrophoresis, computer applications in, review, 10D197
- photometer for, 1J77
- in animal feed, trichloroacetic acid in Kjeldahl, 6G16
- in biological fluids, by isoelectric focusing, 10D186
- by zone immunoelectrophoresis, 3D196
- in brewing materials, by near-i.r. spectrometry, 6F73
- in brewing raw materials, by near-i.r. spectrometry, 7F84
- in cereal products, by gel electrophoresis, 7G6
- in cerebrospinal fluid, 6D235
- in cerebrospinal fluid and urine, 7D191
- in food, by n.m.r., 5F1
- Kjeldahl, potassium sulphate as catalyst in, 12F6
- in liver, electrophoretic, 12D181
- in meat, 4F27
- in meat and meat products, by direct distillation, 5F17
- in milk, by i.r. absorption spectrometry, automated analyser in, 10F40
- in milk powder, by diffuse-reflectance i.r. spectrophotometry, 2F28
- in milk-protein concentrates, reproducibility of, 5F30
- in plasma, by cation-exchange h.p.l.c., 3D174
- by ion-exchange chromatography - size-exclusion chromatography, 3D175
- sweat and urine, by electrophoresis, 2J33
- in plasma and urine, by immunoassay, 1D154
- in pork and beef, by near-i.r. spectrophotometry, 1F10
- in presence of mercapto-compounds, by micro-biuret method, 8D190
- in presence of Percoll, by dye-binding assay, 8D187
- in *E. coli* ribosomes, by h.p.l.c., 3D188
- in sea-water and interstitial water, by colorimetry, 8H81
- in sediments and interstitial water, by g.c. after ninhydrin - carbon dioxide reaction, 7H65
- in serum, automated analyser for, 9D10
- biuret reaction in automated spectrophotometric, 3D173
- by biuret method, interference by dextran in, 12D180
- by chemiluminescence, 2D194
- by electrophoresis, computerized diagnosis from results of, 6D243
- computer program for, 6D234
- effect of 2-mercaptoethanol on, 10D184
- calibration of automated analyser in, 5D197
- in sugar cane and juice, interference by polysaccharides and tannin in spectrophotometric, 3F10

Proteins, detmn. of,—continued

- in sweat, by electrophoresis, 1D153
- in tissues, automated, 10D11
- in urine, automated continuous-flow, 6D233
 - by automated Coomassie blue dye-binding method, 1D156
 - by Coomassie brilliant blue method, precision of, 4D241
 - by spectrophotometry, 8D198
 - by turbidimetry, pptn. reagent for, 10D185
 - dye-binding method for, 6D242
 - with test strips, review, 1D2
- in urine and cerebrospinal fluid, by precipitant - dye method, 1D155
- in wheat, by near-i.r. reflectance spectrometry, 3G2
 - calibration for, 6G3
- in wheat and flour, by near-i.r. reflectance spectrometry, 3F13
- in white flour, by near-i.r. reflectance, 10F27
- of human cerebrospinal fluid, electrophoretic, 12D189
- review, 6F33, 7D188, 9D192
 - with trinitrobenzenesulphonate, 10D193
- detmn. of amino-acid sequence in, automatic analysers for, 6D239
- detmn. of crude, in feeds, stopped-flow colorimetric, 8G7
- detmn. of disulphide bonds in, 11D196
- detmn. of glycosylated, in plasma, by affinity chromatography, 8D207
- in serum, kit for, 10D183
- detmn. of labile sulphide in iron and sulphur-containing, by spectrophotometry, 1D175
- detmn. of lysine in food, by succinylation, 11F5
- detmn. of modified lysine residues in, review, 9D187
- detmn. of nitrogen in, by Kjeldahl digestion, indophenol blue reaction in, 1D26
- detmn. of proteolysis in milk, by spectrophotometry, 6F50
- detmn. of radio-labelled, on slab gels, instrument for, 8D193
- detmn. of ratio of lipids to, by i.r. spectroscopy, 9D131
- detmn. of retinol-binding, in serum, by enzyme-linked immunosorbent assay, 4D250
- detmn. of soya, in meat products, spectrophotometric, 10F29
- detmn. of sulphur in thin films of, by electron micro-probe analysis, 10F80
- detmn. of total, in urine, by biuret method, ultra-filtration blank in, 10D182
- detmn. of turnover of, *in vivo*, by n.a.a., 10D39
- electrophoresis of high-mobility-group, effect of histones on, 4D244
- electrophoresis titration curves of, with modified cellulose acetate membranes, 2D192
- extraction of, from dilute soln. in presence of surfactants and lipids, 11D195
 - from polyacrylamide gels, electrophoretic, 10D187
- h.p.l.c. of, 11A2B
- hydrolysis of, validity of pH drop measurement of extent of, 6F3
- identn. of, after hydroxylamine cleavage, by electrophoresis, 3D206
- by h.p.l.c. and classical methods, 6D244
- in plasma, by immunoelectrophoresis with immunosubtraction, 6D232
- identn. of spectrally similar phenylthiohydantoin derivatives of amino-acids in sequencing of, 12D165
- identn. of whey, in milk products, by size-exclusion chromatography, 7F57
- isoelectric focusing of, errors in, 11D186
- measurement of mol. wt. of, interference by polyoxyethylene glycol in, 11D194
- removal of cholate, deoxycholate and Triton X-100 from soln. of, by adsorption on Toyopearl resin, 9D198
- sampling of, prevention of loss by adsorption to glass and plastic in, 7D189
- sepn. of, by anion-exchange h.p.l.c., 8D186
 - by electrophoresis, gel for, 4D247
 - replicas of silver-stained gels in, 3J40
 - simultaneous staining in, 4D249
- by gel electrophoresis, 3D184
 - photography of silver-stained gels in, 2D191
- by gel electrophoresis - autoradiography, 11J41
- by gel-filtration chromatography on Superose 6B, 10J48
- by high-performance gel-permeation chromatography, 1D160
- by high-performance hydrophobic-interaction chromatography, 10D194
- by high-performance molecular-sieve chromatography, 10D190
- by high-performance size-exclusion chromatography, 6D240
- by h.p.l.c., 3D187, 11D182
- fluorocarbon bonded phase for, 6D238
- review, 5D1, 5D196, 6D201
- stationary phases for, 6J35
- by h.p.l.c. on alumina, 11D198
- by ion-exchange chromatography, 4J45
 - adsorbent for, 3J37
 - optimization of, 3D176
- by ion-exchange chromatography on Cibacron blue 3G-A - Sepharose, 9J39
- by isoelectric focusing, 11J42
- visualization in, 1D151
- by molecular sieve chromatography, 10D191
- by reversed-phase h.p.l.c., 9D201

Proteins, sepn. of,—continued

- by slab gel electrophoresis, apparatus for, 9J47
- by two-dimensional electrophoresis, review, 8D191
- from influenza virus, by h.p.l.c., 3D193
- from other biopolymers, by liquid chromatography on modified porous glass, 2D158
- from polyacrylamide gels, by isotachopheresis, 6D247
- in *Neurospora crassa*, electrophoretic, 9J46
- in bovine whey, by two-dimensional electrophoresis, 9F33
- in human skeletal muscle, by gel electrophoresis, 10D195
- in serum, by electrophoresis, microcomputer-based densitometer for, 12D185
 - by electrophoresis on agarose-coated transparent tape, 4D242
 - by gel electrophoresis, review, 1J40
 - by h.p.l.c., 3D202
- in soya beans, by electrophoresis, 4D240
- in urine, by ion-exchange chromatography, 3D201
- in urine and cerebrospinal fluid, by Fast Protein Liquid Chromatography, 4D239
- mobile-phase selection for ion-exchange chromatographic, 3D182
- of germinating wheat, by h.p.l.c., 12G1
- review, 11D190
- sulpholane as hydrophobic solvent in, 10D192
- sepn. of brain, in presence of urea, by ion-exchange chromatography, 7D185
- sepn. of gliadin, of wheat, by polyacrylamide gel electrophoresis, 2G4
- sepn. of high-mobility-group, by h.p.l.c., 11D200
- sepn. of high-molecular-weight, by gel-permeation chromatography, 5D207
- sepn. of peptides in digest of, by h.p.l.c., 2D184
- sepn. of pituitary, by h.p.l.c., 3D189
- sepn. of ribosomal, by h.p.l.c., 2D203
- sepn. of sodium dodecyl sulphate-solubilized, by "rocket" and crossed immunoelectrophoresis, 5D198
- sepn. of whey, in milk, by h.p.l.c., 7D184
- sequence studies of, by h.p.l.c. of dansyl derivatives of amino-acids, 5D179
- silver staining of, in polyacrylamide gels, improved sensitivity in, 5D199
- staining of, on nitrocellulose paper, with indian ink, 3D180
- transfer of, from gels to nitrocellulose, 3D179
- Proteoglycans**, detmn. of sugars in, by g.c. - m.s., 6D258
- Prothionamide**, detmn. of, by ammonia-gas-sensing electrode, after acid hydrolysis, 4E57
- Prothrombin**, sepn. of, from decarboxyprothrombin, in plasma, by h.p.l.c., 11D204
- Protirelin**, detmn. of, in blood, by r.i.a., 8D184
- in pharmaceutical preparations, 9A2B
- Protizinc acid**, detmn. of, by coulometric titration, 8E54
- Protocatechualdehyde**, detmn. of, by t.l.c., 11C20
- Protocatechuic acid**, detmn. of, by t.l.c., 11C20
- in bacteria, plants and biological tissues, by spectrophotometry, reagent for, 4D160
- sepn. of, by h.p.l.c., 1G2
- Protoporphyrin, zinc**, detmn. of, in blood, by front-face fluorimetry, review, 9D223
- in screening for lead poisoning, 2D211
- Protoporphyrin IX dimethyl ester**, sepn. of, from impurities, on polyamide column, 12D200
- Protoporphyrins**, detmn. of, in blood, by ethyl acetate - acetic acid extraction, 10D222
- Protriptyline**, detmn. of, in plasma, by h.p.l.c., 10D93
- in serum, by h.p.l.c., 4D107
- Pro-vitamin A**, detmn. of, in serum, by h.p.l.c., 12D218
- Proxiphylline**, detmn. of, in serum, by h.p.l.c., 4D74
- Prunus**, detmn. of elements in leaves of, by n.a.a., 10A8
- Pseudoephedrine**, detmn. of, in cocaine, by h.p.l.c., 8E12
- in pharmaceutical preparations, by h.p.l.c., 5E10
- sepn. of enantiomers of, by h.p.l.c., 12E46
- Pseudomonas fluorescens**, detmn. of proteolytic activity of, in milk, azocasein as substrate for, 9F32
- Psilocin**, detmn. of, in *Psilocybe* fungi, by reversed-phase h.p.l.c., 10D57
- identn. of, in hallucinogenic mushrooms, by h.p.l.c., 5E13
- Psilocybe semilanceata**, identn. of psilocin and psilocybin in, by h.p.l.c., 5E13
- Psilocybe spp.**, detmn. of psilocybin and psilocin in, by reversed-phase h.p.l.c., 10D57
- Psilocybin**, detmn. of, in hallucinogenic mushrooms, by h.p.l.c., 12E65
- in *Psilocybe* fungi, by reversed-phase h.p.l.c., 10D57
- identn. of, in hallucinogenic mushrooms, by h.p.l.c., 5E13
- Psoralen, 5-methoxy-**, detmn. of, in perfumes and sun-tan cosmetics, by h.p.l.c., 7C81
- sepn. of, from bergamot oil, by t.l.c., 6C48
- Pteridines**, detmn. of, in blood, by h.p.l.c., 3D137
- identn. of, as TMS derivatives, by g.c. - m.s., 7D205
- Pterins**, detmn. of, in urine, by h.p.l.c., 7D232
- Pueraria Radix**, detmn. of daidzein, daidzin and puerarin in, by h.p.l.c., 12E18
- Pueraria spp.**, detmn. of daidzein, daidzin and puerarin in, by h.p.l.c., 12E18
- Puerarin**, detmn. of, in *Pueraria Radix* and *Pueraria* spp., by h.p.l.c., 12E18

- Pulses, detmn. of methionine in, by g.l.c., 11G2
 detmn. of uranium in, by fission track counting, 3G3
- Pumpkin-seed oil, characterization of, fluorescence topography in, 9F57
- Pumpkin seeds, detmn. of fibre components in, 4F50
- Purine, 2,6-diamino-, detmn. of, by differential pulse polarography, 5E52
 —, 2,6-diamino-9-(2-hydroxyethoxymethyl)-, detmn. of, in biological fluids, by r.i.a., 5D102
- Purine nucleoside phosphorylase, assay of, in cell lysates and intact cells, by h.p.l.c., 4D296
- Purines, detmn. of, by potentiometric titration, effect of mixed solvent on, 7D225
 in protein-rich foods, by ion-exchange chromatography, 9F7
 identn. of, by h.p.l.c. with post-column pH change - spectroscopic detection, 12D212
 sepn. of, by high-performance t.l.c., 7D224
 by reversed-phase h.p.l.c., retention values in, 7D226
- Purin-8-ol, 2,6-diamino-, detmn. of, by differential pulse polarography, 5E52
- Putrescine, detmn. of, in urine, by capillary g.c., 12D160
- Putrescine, detmn. of, by h.p.l.c., 3D128, 7D153
 in bacterial cultures, by g.c., 7D154
 in biological fluids and cell extracts, by ion-exchange chromatography with detection by fluorescence or with ninhydrin, 4D212
 in blood, by g.l.c., 6D202
 in foods, by h.p.l.c., 2F6
 in meat, by ion exchange and capillary g.c., 9F21
 in raw fish and fish products, by h.p.l.c., 10F35
 in serum and urine, by h.p.l.c., 6D203
 in urine, by capillary g.c., 12D160
 h.p.l.c. and enzymic, 9D171
 in wine, by h.p.l.c., 5F52
- Pyrazole, detmn. of, in milk, by t.l.c., 2F25
- Pyrazinamide, detmn. of, in pharmaceutical preparations and biological fluids, review, 11E46
- Pyrazole, 3-methyl-, detmn. of, in air, by g.c., 8H32
 —, 3-methyl-1-vinyl-, detmn. of, in air, by g.c., 8H32
- Pyrazolecarboxylic acid hydrazones, derivatives, analysis of, by g.c., 10C50
- Pyrazoline-3-carboxylic acid, 5-hydroxy-1-(4-sulphophenyl)-, detmn. of, in synthetic food colours, by ion-pair liquid chromatography, 7F25
- Pyrazolinediones, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E28
- Pyrazolo[1,5-d][1,2,4]triazin-4(5H)-one, 6,7-dihydro-, derivatives, analysis of, by g.c., 10C50
- Pyrazon, detmn. of, in air, by t.l.c., 11H29
- Pyrazophos, detmn. of, in plant products, spectrophotometric, 12G10
- Pyrene, detection of, by resonance Raman spectrometry, 12C35
 detmn. of, in hexane, by h.p.l.c. with two-photon ionization detector, 9J31
 in river water, by t.l.c. with pre-concentration, 10H83
 in soln., by laser photo-ionization, 5C53
- , 1-nitro-, detmn. of, in air-borne particulates and vehicle emissions, by g.l.c., 7H22
 in diesel-engine exhaust gases, by g.c. - m.s. and g.c., 2H28
- Pyrethrins, detmn. of, in crops, water and soil, by g.l.c., 5G41
 in grain, by g.l.c. - e.c.d., 7G37
 in liquid carbon dioxide aerosols, by h.p.l.c., 10C5
 in spray formulations, by h.p.l.c., 12G17
 sepn. of enantiomers of, in soil, by h.p.l.c., 3G22
- Pyrethroids, detmn. of, in air, by g.c. and t.l.c., 10H38
 in fruit and vegetables, by g.l.c., 2F32
 in tomatoes and leaves, by t.l.c., 2G24
- Pyridate, detmn. of, in cereals, by multi-column h.p.l.c., 11G28
 detmn. of metabolite of, in cereals, by derivatization - g.c. - FT i.r., 9G18
- Pyridine, detmn. of, by h.p.l.c., 3D240
 dimedone bis(aminohydrone) in catalytic spectrophotometric, 11B25
 in waste water, by spectrophotometry, 2H70
 sepn. of, in coal tar, by g.l.c., 9C61
 titration of, coulometric generation of protons in, 4C25
- , 4-amino-, detmn. of, in equine plasma, by g.c., 12D84
- , 4-amino-5-hydroxymethyl-2-methyl-, detmn. of, by h.p.l.c., 3D240
- , 6-chloro-2-(trichloromethyl)-, detmn. of, in waste water, 5H95
- , pentachloro-, detmn. of, by g.l.c., 10C48
- Pyridine-2-aldoxime, detmn. of, pentacyanoferrate^{II} complexes in spectrophotometric, 9E56
- Pyridine-2-thione, 1-hydroxy-, as reagent for metals, 5A7
- Pyridinium-2-aldoxime chloride, 1-dodecyl-, detmn. of, pentacyanoferrate^{II} complexes in spectrophotometric, 9E56
- Pyridinium-2-aldoxime methyl sulphate, 1-methyl-, detmn. of, pentacyanoferrate^{II} complexes in spectrophotometric, 9E56
- Pyridinium bromide, hexadecyl-, detmn. of, sulpharsazen in spectrophotometric, 9E46
- Pyridinium chloride, N-butyl-, detmn. of water in melt of aluminium chloride and, by voltammetry, 5B79
- , 1-[2-(2-chlorophenothiazin-10-yl)-2-oxoethyl]-4-(hydroxyiminomethyl)-, detmn. of, by polarography, 7E42
- , hexadecyl-, detmn. of, by potentiometric titrimetry, 7C26
 in chondroitin sulphate and mouthwash preparation, by h.p.l.c., 7E33
- Pyridinium chloride—continued
 —, 4-(hydroxyiminomethyl)-1-[2-oxo-2-(phenothiazin-10-yl)ethyl]-, detmn. of, by polarography, 7E42
- , 4-(hydroxyiminomethyl)-1-[2-oxo-2-(2-trifluoromethylphenothiazin-10-yl)ethyl]-, detmn. of, by polarography, 7E42
- Pyridinium ion, hexadecyl-, titration of, with picric acid, ion-selective electrode in, 5E48
- Pyridin-4(1H)-one, 3-hydroxy-, detmn. of, in plasma, by h.p.l.c., 3D82
- 9H-Pyrido[3,4-b]indole derivatives, identn. of, in L-tryptophan pyrolysates, by t.l.c. and h.p.l.c., 2D179
- Pyridoxal, detection of, in tablets, by isotachopheresis, 9J48
 detmn. of, in plasma and leucocytes, by fluorimetry, 9D244
 in tissues, by h.p.l.c., 11D225
 sepn. of, by h.p.l.c. with post-column derivatization, 3E19
- Pyridoxal 5'-phosphate, detmn. of, enzymic - spectrophotometric, 5D256
 in plasma and leucocytes, by fluorimetry, 9D244
 in serum, enzymic, 9D243
- Pyridoxamine, detection of, in tablets, by isotachopheresis, 9J48
 detmn. of, in tissues, by h.p.l.c., 11D225
 sepn. of, by h.p.l.c. with post-column derivatization, 3E19
- 4-Pyridoxic acid, sepn. of, by h.p.l.c. with post-column derivatization, 3E19
- Pyridoxine, detection of, in tablets, by isotachopheresis, 9J48
 detmn. of, in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31
 in multivitamin preparations, by h.p.l.c., 9E30
 in pheasant egg-yolk, spectrophotometric, 8F36
 in tissues, by h.p.l.c., 11D225
 sepn. of, by h.p.l.c. with post-column derivatization, 3E19
- Pyridoxine hydrochloride, detmn. of, in pharmaceutical preparations, colorimetric, 8E46
- Pyrimethamine, detmn. of, in chicken and eggs, by h.p.l.c., 4F29, 11F17
 in plasma, by h.p.l.c., 9D93
 in plasma and urine, by g.c., 11D104
- Pyrimidine derivatives, detmn. of, by potentiometric titration, effect of mixed solvent on, 7D225
 in protein-rich foods, by ion-exchange chromatography, 9F7
- Pyrimidines, identn. of, by h.p.l.c. with post-column pH change - spectroscopic detection, 12D212
 sepn. of, by high-performance t.l.c., 7D224
- 5-H-Pyrimido[5,4-d][2]benzazepine, 9-chloro-7-(2-chlorophenyl)-, detmn. of, together with its 5-hydroxy-metabolite, in biological fluids, by g.l.c. and h.p.l.c., 2D77
- Pyrite, detmn. of, in coal, by Mossbauer spectrometry, 6B176
 in minerals, soil and rocks, by thermal analysis, 1B154
- Pyriithiamine, detmn. of, by h.p.l.c., 3D240
- Pyroglutamic acid, detmn. of, in urine, by g.l.c., 6D160
- Pyrolysis, with g.c., apparatus for, 2J41
- Pyromecaine, detmn. of, in serum, by g.l.c., 12D88
- Pyrophosphoribide a, detmn. of, in chlorella and vegetables, by reversed-phase t.l.c., 7D204
- Pyrophosphate, detmn. of, in detergents, by ion chromatography, 9C68
 in plasma and platelets, enzymic - fluorimetric, 11D27
 in presence of molybdenum, by paper chromatography or t.l.c., 7B88
- Pyrolidine, N-nitroso-, detmn. of, in foods, by g.l.c. and h.p.l.c., 8F7
 in fried dry-cured bacon, 12F15
- Pyrolidine-2-carboxylic acid, 5-oxo-, detmn. of, in coffee products, by gel electrophoresis - g.c., 10F57
- Pyrolidine-2-thione, detmn. of, 4-(2-pyridylazo)resorcinol and copper^{II} in spectrophotometric, 10C49
- Pyrolidinone, N-vinyl-, detmn. of nitrogen in, Kjeldahl, 9C84
- Pyrolizidine alkaloids, characterization of, by negative-ion chemical ionization m.s., 2E13
- 4a,8a-trans-1H-Pyrrolo[2,3-g]isoquinolin-4-one, (±)-3-ethyl-2,6-dimethyl-4,4a,5,6,7,8,8a,9-octahydro-, detmn. of, in plasma, by g.c. - m.s., 6D95
- 1H-Pyrrolo[2,3-f]quinoline-2,7,9-tricarboxylic acid, 4,5-dioxo-, detmn. of, by ion-pair or ion-suppression chromatography, 3D248
- Pyruvate, detmn. of, in biological tissues, by proton n.m.r., for estimation of post-mortem time, 6D157
 ion-selective electrode for, 3D105
- Pyruvate decarboxylase, assay of, by polyacrylamide gel electrophoresis, activity stain for, 7D254
- Pyruvate dehydrogenase, assay of, spectrophotometric, 3D250
- Pyruvate kinase, assay of, by direct radiometry, 6D300
 assay of isoenzymes of, in serum, by electrophoresis and isoelectric focusing, 8D239
- Pyruvic acid, detmn. of, and lactic acid, in water, by polarography, 7H63
 in air, by ion chromatography, 10H33
 in body fluids, enzymic - fluorimetric, 11D210
 in egg products, by g.l.c., as indicator of spoilage, 11F19
 in plasma and urine, 4D162
- , benzylidene-, salt, as complexing agent for metals, 10A6
- , phenyl-, detmn. of, in plasma and urine, 4D162
- Pyruvic acid phenyl ester, detmn. of, in urine, with test strips, review, 1D2

Quartz—continued

- detmn. of, in air-borne dust, by X-ray diffraction, 12H13
in clay minerals, by i.r. spectroscopy, 1B156
detmn. of lead in hydrothermal inclusion fluid in, by differential pulse anodic-stripping voltammetry, 11B77
- Quassia amara**, sepn. of quassinoids from, by h.p.l.c. and n.m.r., 9D153
- Quassin**, detmn. of, with its metabolites, by ELISA, 9E60
sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
—, 14,15-dehydro-, sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
—, 12-hydroxy-, sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
—, 18-hydroxy-, sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
- Quassinoids**, detmn. of, in *Simaruba glauca* seeds, by h.p.l.c., 4G19
sepn. of, from *Quassia amara* L., by h.p.l.c. and n.m.r., 9D153
- Quaternium-15**, detmn. of, in cosmetics, by h.p.l.c. - fluorimetry, 10C66
- Quazepam**, detmn. of, and its metabolites, in plasma, by g.l.c., 11D76
- Quebrachamine**, sepn. of enantiomers of, by inclusion chromatography on β -cyclodextrin bead polymer, 5E12
- Quercetin**, detmn. of, in food, by fluorimetry, 1F4
in hawthorn, by h.p.l.c. and t.l.c., 12E19
- Quercetin 3-galactoside**, detmn. of, in hawthorn, by h.p.l.c. and t.l.c., 12E19
- Quinalbarbitone**, detmn. of, in plasma, by g.l.c., 3D45
in serum, by EMIT, 6D75
- Quinalphos**, detmn. of, in urine, by g.l.c., 3D86
- Quinazolin-4-one, 1,2,3,4-tetrahydro-2-thioxo-**, detmn. of, by spectrophotometry with palladium chloride, 5C60
- Quingestanol**, detmn. of, in mixtures, by second-derivative spectrophotometry, 12E60
- Quinic acid**, sepn. of, from other organic acids, in leaf tissue, by h.p.l.c., 2D137
—, 4-O-caffeoyl-, detmn. of, in potatoes, by h.p.l.c., 9F43
—, 5-O-caffeoyl-, detmn. of, in potatoes, by h.p.l.c., 9F43
—, 3,4-dicaffeoyl-, detmn. of, in potatoes, by h.p.l.c., 9F43
—, 3,5-dicaffeoyl-, detmn. of, in potatoes, by h.p.l.c., 9F43
- Quinidine**, detmn. of, in blood, by automated fluorimetry or photometry, 4J10
in plasma, by t.l.c., 12D57, 12D58
in serum, by extraction with fluorimetry, t.l.c. or h.p.l.c., 5D48
by h.p.l.c. and enzyme-multiplied immunoassay, 4D118
by t.l.c. - fluorescence densitometry, 7D43
by t.l.c. - reflectance scanning, 11D94
fluorimetric, 12D56
detmn. of analogues of, in plasma, by ion-pair h.p.l.c., 8D75
- Quinidine sulphate**, detection of, by t.l.c., 8E13
- Quinine**, detection of, and its salts, by t.l.c., 8E13
detmn. of, in blood and urine, by spectrophotometry, 5D49
in plasma and urine, by liquid chromatography, 3D33
in serum, by h.p.l.c., 7D44
in soft drinks, by isotachopheresis, 9J48
segmentation in ring-oven fluorimetry, 9J105
electrophoresis of, indicator for, 6E2
- Quinine hydrochloride**, detmn. of, in pharmaceutical preparations, 11E32
detmn. of moisture in, gas-dynamic, 11E2
- Quinizarin**, detmn. of, in diesel fuel and hydrocarbon oils, analyser for, 2C47
- Quinol**, detmn. of, and its derivatives, Ce^{IV} in titrimetric, 10A11
1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
by differential pulse polarography, 6C22
by flow-injection analysis or h.p.l.c., electrochemical detector for, 12J40
by titration with manganese, 10A10
in aq. soln., by potentiometric titration, 4C36
in whole blood, by g.l.c., 1D74
manganese^{III} in coulometric titrimetric, 12A7
sepn. of, from other dihydric phenols, by h.p.l.c. with amperometric detection, 5J37
—, 2-chloro-, detmn. of, manganese^{III} in coulometric titrimetric, 12A7
—, 3,5-di-*t*-butyl-, glucuronide, detmn. of, in rat bile, by h.p.l.c., 8D91
—, 2-methyl-, detmn. of, manganese^{III} in coulometric titrimetric, 12A7
—, *t*-butyl-, detmn. of, in dairy products, by g.l.c., 8F37
in vegetable oils, butter and margarine, by h.p.l.c., 9F17
- Quinoline**, detmn. of, in cigarette smoke, by g.l.c., 8D157
photoacoustic spectrometry of matrix-isolated, low-temperature, 12C40
study of interactions of, with substrates, by i.r. and reflectance spectrometry, 3C40
—, 8-amino-5-phenylazo-, as reagent for palladium, 4B184
—, 2,6-dimethyl-, photoacoustic spectrometry of matrix-isolated, low-temperature, 12C40
- Quinoline-4-carbothamide derivatives**, detmn. of, by spectrophotometry and t.l.c., 9E48
- Quinoline derivatives, methyl-**, detmn. of, in cigarette smoke, by g.l.c., 8D157
- Quinoline-8-thiolate derivatives**, sepn. of metal chelates of, by t.l.c., 4B5, 4B6
- Quinolinium chloride, 1-(β -hydroxyiminophenethyl)-**, detmn. of, by potentiometric titration, 7E41

Quinolin-8-ol, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17

Quinolins, sepn. of, by h.p.l.c., effect of micellar mobile phase on, 5C46

Quinomethionate, detmn. of, in apples and oranges, by h.p.l.c., 2G21

Quinones, detmn. of, 3-phenylthiazolidine-2,4-dione in spectrophotometric, 10C38

Quinoxalin-2-ol, detmn. of, by differential pulse polarography, 2C36

Quinuronium sulphate, identn. of, microscopic and chemical, 1E1

R

Racemic mixtures, sepn. of, by h.p.l.c., chiral stationary phase for, 5J27

Radiations, charged-particle, detectors for, mercuric iodide semiconductors as, 6J171

from radon daughter products, thermoluminescence dosimetric detector for, 10H18

identn. of low-energy ions in, plastic track detectors in, 5J144

ionizing, safety regulations for, 1A11

measurement of, by scintillation counting or Geiger - Mueller detection, 4J157

limits of detection in, 3J97

solid-state nuclear-track detector for, cellulose nitrate as, 5J146, 5J147

system for automatic track counting in plastic nuclear-track detectors for, 5J145

measurement of ionizing, correction for counting losses and pulse pile-up rejection in, 10J124

microcomputerized system for low-level counting of, 9J121

—, **alpha-**, detection of, automated counter for, 2J101

detectors for, calibration of etched-track, 10H14

measurement of, imaging system for, in detection of plutonium, 5J143

ionization chamber for spectrometric, 9J120

personal or environmental dosimeter for, 9H14

—, **beta-**, background-compensated Geiger - Mueller counter for, 4J158

detection of, X-ray films for, 2J102

measurement of, surface-contamination monitors in, standards for calibration of, 5A18

proportional counters for, ternary gas mixtures for, 10J125

—, **gamma-**, automated counter for, in r.i.a., 4J160

counters for, mercuric iodide in, 6J167

detection of, thallium-activated sodium iodide crystals for, efficiency of, 6J170

detector for nuclear-reaction, in-beam-line low-level, 12B29

detectors for, calibration of, 4J159

in activation analysis of geological materials via short-lived isotopes, 8B5

measurement of, detector-ratio and discriminator-ratio methods in, 5J148

4-(4-dimethylaminostyryl)-1-methylpyridinium iodide soln. as dosimeter in, 10J126

instrument for, 2J103

photon calibration source for, 3J98

proportional counters for, ternary gas mixtures for, 10J125

Radicals, detmn. of, by spectrometry, 4B4

in polymer films, by e.s.r., 7C95

Radioactivation analysis, automated gamma-ray spectrometer for, 8J116

depth profiling by, effects of surface irregularities on, 12J142

high-resolution, in narrow-resonance width measurements and shallow depth profiling, 12J145

in analysis of semiconductors, 11B164

standard reference targets in, 12J144

with measurement of short-lived nuclides, 3J96

—, **by charged particles**, annihilation γ -ray detection in, rapid transfer system for, 12J141

dead-time loss correction in, 12J140

in depth profiling, 12J143

reduction of background in, clean carbon backings for, 7J77

—, **by neutrons**, abundance values for minor isotopes in, 2J100

accuracy of standardization in, 10J119

californium-252 source for, 12J139

computer program for, 6A12

depth-profiling facility for, 12J137

detectors for, bismuth germanate as, 8J118

encapsulation of trace elements in polyethylene for, 5C106

epithelial, boron and cadmium filters in, 10J118

for oxygen, elimination of random and systematic errors in, 12B118

in detmn. of trace elements in reference materials, 9A13

in environmental analysis, 12H3

instrumental, of biological materials, sensitivity and accuracy in, 11D7

isotope-source, automated sample changer for, 6J163

microprocessors in, 5B7

multi-element standard for, 6A3

nuclear activation and decay data for absolute (n,γ) in, review, 8J115

nuclear data for, 11J118

of complex materials, 14-MeV neutrons in, 7J117

of metals, effects of implantation by recoil and irradiation-enhanced diffusion on, 5J140

prompt- γ -ray, applications of, 4J155

review, 4J156, 9J118

Radioactivation analysis, by neutrons—continued

- yield tracers in, 12J138
 —, by **photons**, effect of X-ray selective excitation in, 5J141
 in soil analysis, 12G4
 pulsed optical feedback as source of error in, 9T19
 selective excitation of characteristic X-rays in, 10J120
 stable-isotope dilution in, in detmn. of calcium, zinc and cerium, 6J164
 standardization method with bremsstrahlung, 11J119
Radioactive wastes, analysis of, by a.a.s., 1B60
 sepn. of uranium in, by ion exchange on vermiculite or filterite, 2B45
Radiochemical analysis, ion-exchange sepn. in, distribution coeff. and chromatograms for, 10J121
 low-temperature oxidizing plasma in, 12J136
 sepn. methods for, 10J122, 10J123
 sub- and super-equivalence method in, errors in, 6A9
Radio-immunoassay, automated instrument for solid-phase, 4J9
 automated γ -ray counter for, 4J160
 calculator programs for, 4A29
 calibration of, comparison of logistic and mass-action curves for, 4D13
 computerized construction of calibration graph for, 9A38
 γ -counters for, 10J9
 curve-fitting equations for, 12A19
 data analysis and quality control in, computer system for, 4D16
 detmn. of drugs by, review, 11D34
 double-antibody, semi-automated isolation of immune ppt. in, 7D10
 hot-wire cutting apparatus for PVC trays in, 6J1
 immobilization of antibody to plastic surface in, 5D5
 immune chromatography in, 10D12
 immuno-binding, nitrocellulose paper in, 10D13
 in analysis of water, review, 12H76
 in forensic science, review, 1D37
 interference by DNA in, 6D261
 micro-stick procedure for rapid screening of monoclonal antibodies, 2D204
 multi-crystal gamma-counters for, 1J96
 plotting of data in, 6D15, 6D16
 quality control and sources of error in, review, 6D222
 response curves for, 4D14
Radioisotopes, analysis of, by Rutherford back-scattering and PIXE spectrometry, 5J137
 analytical applications of, in industry, 11A1B
 detmn. of, non-destructive system for, design of, 5A40
Radiometry, energy-dispersive X-ray spectrometers with semiconductor detectors in, 5J159
Radionuclides, applications of, review, 4A4
 $4\pi \beta - \gamma$ coincidence measurement of, effects of X-rays and Auger electrons in, 1B10
Radioreceptor assay, for drugs in biological fluids, review, 11D33
Radium, detmn. of, in environmental materials, 5H2
 in water, by ion exchange - liquid scintillation counting, 12H56
Radium-226, detmn. of, in uranium ores, 12B78
 in urine, by co-pptn. and α -counting, 5D21
 in water, by $\alpha - \gamma$ coincidence technique, 5H51
 sepn. of, from thorium-230, by pptn., 11B33
Radium-228, detmn. of, by measurement of Cerenkov radiation of actinium-228, 6B58
 in thorium nitrate, by liquid-scintillation counting and γ -ray spectrometry, 6B57
Radon, detection of decay products of, in air, portable monitor for, 11H10
 detmn. of, and its daughters, in air, detection systems for, 10H17
 from building materials, by scintillation counting, 10H15
 in air, by enhanced α -track method, 6H14
 calibration of etched-track detectors for, 10H14
 charcoal adsorption methods for, 10H12
 interlaboratory comparison of calibrations for, 10H16
 monitoring systems for, 10H18
 passive dosimeter with nuclear track detector for, 11H11
 in air and water, instrument for, 8H11
 in marine phosphorites by γ -ray spectrometry, 4B87
 in soil air, by absorption in scintillation fluid, 5G15
 in solids, liquids or air, semiconductor detector and electrostatic precipitator in, 5B26
 scintillation cells for, 5J158
 detmn. of daughters of, α -dosimeter for, 9H14
 in air, by α -particle counting, computer program for, 9H13
 detmn. of potential alpha-energy concn. of decay products of, in indoor air, by concurrent counting in two channels, 10H13
Radon-220, detmn. of, in air, by α -counting, 8H12
 detmn. of daughters of, in air, by α -particle counting, computer program for, 9H13
Radon-222, detmn. of, in air, by α -counting, 8H12
 by liquid scintillation spectrometry, 10H11
 in sea-water, trap for, 8H51
Raffinose, sepn. of, by h.p.l.c., 2C13
Rain, detmn. of cadmium and lead in, 8H54
 detmn. of heavy metals in, by voltammetry, 12H51
Raman micro-probe analysis, 10A4B
Raman spectrometry, advances in, 1J95B
 calibration in, with emission spectra of neon and argon discharge lamps, 5J119

Raman spectrometry—continued

- diamond anvil cell for, of liquids, 10J109
 in analysis of biomolecules, 6D241
 in analysis of polymers, review, 5C101
 in analysis of thin films, surface-enhanced scattering effect in, 5B47
 in detmn. of light elements, 7B18
 instrument for optical activity and normal Raman measurements in, 5J120
 in surface analysis, review, 12B6, 12B7
 laser, multi-channel instrument for, 3J84
 laser micro-probe, in identn. of pigments in antiquities, 10C83
 low-temperature, high-pressure cell for, 7J89
 micro-analysis by, 10J107
 micro-probe, optical levitation for sample support in, 8J106
 review, 8J104
 minicomputer data-acquisition and -analysis system for, 8J105
 multi-purpose computer interface for, 1J80
 non-linear, review, 12J113
 review, 12J112
 sources for, lasers as, 10J108
Rape, detmn. of carbon-14 in leaves of, 6D40
Rapeseed, detmn. of fatty acids in, by g.l.c., 5G3
 detmn. of glucose and glucosinolates in meal of, by polarography or ion exchange, 5G8
 detmn. of oil in, by wide-line n.m.r. spectrometry, 6F81
Rapeseed flour, detmn. of phenolic acids in, by g.l.c., 9G10
 detmn. of phenols in, by multiple solvent extraction and g.l.c., 8G2
Rapeseed oil, analysis of, by capillary g.c., removal of contaminants in, 11F37
 characterization of, fluorescence topography in, 9F57
 detmn. of allyl isothiocyanate in, by colorimetry, 2F45
 detmn. of polar compounds in, IUPAC method for, 10F73
Rare-earth-metal oxides, detmn. of, in rocks, by spectrography, 1B8
 multi-element trace analysis of, by spectrography, pre-concentration of impurities in, 4B80
Rare-earth-metal pentaphosphates, analysis of, titrimetric, 9B71
Rare-earth metals, cation-exchange behaviour of, in hydrofluoric acid soln., 1B2
 complexation of, with 2,2'-oxybis[ethyliminodi(acetic acid)], 11B45
 detmn. of, *p*-acetylarsenazo in spectrophotometric, 11B47
 2-acetyldimideone in spectrophotometric, 12B69
 asymmetric arsenazo and other bis-azo chromotropic acid reagents in spectrophotometric, 6B77
 asymmetric bisazo-derivatives of chromotropic acid in spectrophotometric, 9B67
m-bromoarsenazo in spectrophotometric, 12B64
p-bromoarsenazo in spectrophotometric, 12B65
 by a.a.s., intra-cavity laser apparatus for, 7B59
 ionization behaviour in, 8B52
 by coherent forward-scattering spectrometry, 7B60
 by h.p.l.c. with ICP a.e.s. detection, 8B54
 by ICP a.e.s., interference by organic acids and solvents in, 3B51
 by ion chromatography, 10B2
 by i.r. and laser - Raman spectrometry, 1B52
 by polarography, reagent for, 5B95
 by reversed-phase paper chromatography, 2B35
 by spectrophotometry, 3B50, 8B56
 reagent for, 4B81
 by spectrophotometry with bromoarsenazo, 4B76
 by t.l.c., review, 12B63
 chlorophosphonazo-mN in spectrophotometric, 5B87
 in accessory minerals, by sample-isolated secondary-ion m.s., 8B53
 in alloys, in presence of aluminium, by spectrophotometry, 6B68
 in bastnaesite, by ion exchange, 3B54
 in geological materials, by spark-source m.s., 9B72
 in iron and steel, spectrophotometric, 9B147
 in iron ore, by spectrophotometry after extractive sepn., 5B227
 in minerals, ores and rocks, by n.a.a., 4B194
 by spectrophotometry, 5B88
 in mixtures, by n.m.r., 3B55
 in monazite and zircon, by spark-source m.s., 5B94
 in monazite sand, by spectrophotometry, 11B46
 in nuclear-reactor fuel, by m.s., 4B94
 in rocks and metallurgical materials, by XRF, 7B62
 in samarium oxide, by extraction chromatography - spectrography, 2B39
 in sewage, 9H85
 in silicate minerals, by ICP a.e.s., 11B76
 in silicate rocks, by n.a.a., 5B137
 XRF measurement of carrier yields in, 10B84
 in steel, by spectrography, hollow-cathode discharge tube for, 5B236
 in tin ore concentrates, by extraction - spectrophotometry, 8B70
 in uraniferous rock, by n.a.a., 10B61
 in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
 in yttrium oxide, by extraction chromatography, 5B93
 ion-selective electrode in, 5J173
 spectrophotometric, 8B55
 detmn. of cerium-group, 6-(4-chloro-2-phosphonophenylazo)-3-(3-nitrophenylazo)chromotropic acid in spectrophotometric, 7B63

Rare-earth metals—continued

- detmn. of impurities in, by emission spectrography, 2B37
 detmn. of terbium and dysprosium in mixtures of, by automated spectrofluorimetry, 6B86
 detmn. of thorium and uranium in mixtures of, spectrophotometric, 10B60
 detmn. of traces of, in soln. of uranium and thorium, by flameless a.a.s., 7B69
 detmn. of zinc in, porphine derivative in spectrophotometric, 9B44
 extraction of, from nuclear fission products, with tertiary amines, 5B98
 from thiocyanate medium, dibutyl hydrogen phosphate in, 11B48
 in presence of perchlorate, diantipyrinylmethane in, 5B97
 extraction of tervalent, synergism in, review, 1B56
 sepn. of, as complexes with tetraphenyl imidodiphosphate, 10B62
 by extraction chromatography, mobile and stationary phases for, 6B79
 review, 7B61
 by ion-exchange chromatography with pyruvic acid as eluent, 10B59
 by solvent extraction, crown ethers in, 2B40
 from manganese and iron, by co-pptn. with strontium sulphate, 4B79
 from nickel and cobalt, extractant for, 8B18
 from transplutonium elements, by liquid chromatography, 1B57
 resin in, 2B38
 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione in, 2B36
- Rare-earth-metal sulphoxides**, detmn. of sulphur in, by potentiometric titrimetry, 9B121
- Raspberries**, detmn. of sugars in purees of, by h.p.l.c., 11F27
 sepn. of anthocyanins of, by droplet counter-current chromatography, 9D221
- Rauwolfia serpentina**, detmn. of alkaloids in, by h.p.l.c. and t.l.c., 2E14
- Reaction rates**, measurement of fast chemical, review, 11A7
- Reagents**, detmn. of hydrogen carbonate and carbon dioxide in, enzymic-spectrophotometric, 3A5
 detmn. of trace manganese in, 7B112
 organic, in China, review, 3A1
 in spectrophotometry, 9J81
 physico-chemical characteristics of, data bank of, 7A4
 purification of, Norit A and di-(2-pyridyl) ketone 2-pyridylhydrazone for removal of metals in, 5B223
 salts as, 9A10
 selenium-reducing, redox properties of, 6B126
 sepn. and purification of, resins for, review, 2A1, 5A5
- Recorders, X - Y**, device for continuous variation of trace width in, 9J1
 survey of, 10J1, 10J2
- Red mud**, analysis and uses of, review, 1B47
- Reductases**, assay of NADP-requiring, fluorescent reagent for, 5D232
- Refractive index**, measurement of, interference filters in, 1J60
- Refractometry**, dipping instrument for, 12J78
 linear hand-held instrument for, 2J63
- Refractory materials**, detmn. of metals in aluminosilicate, 6B179
 detmn. of molybdenum and tungsten in, by XRF, 1B105
- Reinecke salt**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- Remote sensing**, laser and optical systems in, for air pollutants, 4H8
- Renin**, assay of, in plasma, effect of pre-incubation on, 6D311
 effect of temp. during blood processing in, 3D273
 program for immunoassay data processing in, 4A29
 sample collection and processing for, 1D227
 assay of active and total, in plasma, by r.i.a., 10D260
- Rennet whey**, detection of, in skimmed-milk powder, by h.p.l.c., 9F35
- Reserpine**, detmn. of, by h.p.l.c., with post-column photochemical reactor, 1E10
 by micro-bore column h.p.l.c., 6J29
 in pharmaceutical preparations, by g.l.c., 10E12
- Resins**, analysis of thermal-decomposition products of, by g.c. - m.s., 5C112
 detmn. of, in paper pulp, extraction in, 4C82
 detmn. of total acid in oleo- and conifer, 11D114
 in sepn. and purification of reagents, review, 5A5
- , **alkyd**, detmn. of, in paints, by n.m.r., 6C58
 detmn. of phthalic anhydride and polyhydric alcohols in, by g.c., 3C70
 detmn. of phthalic anhydride in, by ion exchange, 2C74
 detmn. of residual solvents and monomers in, by heating - g.l.c., 10C82
- , **dicyanodiamide - formaldehyde**, detmn. of, in air and on skin and working-clothes, by g.l.c., 5H35
- , **epoxy-**, analysis of, by gel-permeation chromatography and/or h.p.l.c., derivatization for, 8C89
 by t.l.c., 8C88
 detmn. of, in paints, by n.m.r., 6C58
 detmn. of glycerol in, by g.l.c., 9C85
 identn. of boron-based curing agents in cured, by computerized i.r. spectrometry, 8C87
- , **melamine - formaldehyde**, detmn. of alkoxy-groups in, by reductive iodination - g.l.c., 10C81
- , **oleo-**, detmn. of capsaicin and dihydrocapsaicin in, by h.p.l.c., 4F60
- , **phenol - formaldehyde**, analysis of, by g.c. - m.s. of resols and etherified resols, 4C95
 detmn. of, in wood products, 11C63
- , **phenolic**, characterization of, by gel-permeation chromatography, 9C86

Resins—continued

- , **urea - formaldehyde**, detmn. of, in wood products, 11C63
- Resmethrin**, detmn. of, in waters, soil and air, by t.l.c., - spectrometry, 2H4
 review, 11G40
- Resorcinol**, detmn. of, by cerimetry, 4E3
 by iodimetric titrimetry, 11C18
 in hair dyes, by h.p.l.c., 7C85
 in pharmaceuticals, by spectrophotometry, 5E59, 6C20
 sepn. of, from other dihydric phenols, by h.p.l.c. with amperometric detection, 5J37
- Reticulocytes**, detmn. of 15-hydroxyeicosa-5,8,11,14-tetraenoic acid in rabbit, by r.i.a., 7D125
- 13-cis-Retinoic acid**, detmn. of, in creams and gel formulations, by t.l.c., 3E18
- trans-Retinoic acid, all-**, detmn. of, in creams and gel formulations, by t.l.c., 3E18
- Retinoids**, chromatography of, review, 11D221
 detmn. of, in blood and serum, by h.p.l.c., 8D220
- Retinol**, detmn. of, in animal feeds, effect of distribution of coated vitamin particles on, 9G11
 in blood and serum, by h.p.l.c., 8D220
 in butter, by h.p.l.c., 12F22
 in cheese, by h.p.l.c., 2F30
 in feeding-stuffs, by h.p.l.c., 4G20
 in feed pre-mixes and mineral supplements, effect of storage on, 4G21
 in fortified milk, by h.p.l.c., 10F39
 in plasma, by h.p.l.c., 3D236
 antioxidants in, 6D285
 in serum, by h.p.l.c., 8D221
 by h.p.l.c. - fluorimetry, 1D194
 by t.l.c., 9D241
 in serum or plasma, extraction - spectrophotometric, 10D217
 in skimmed milk powder, by h.p.l.c., 10F42
 detmn. of intermediates in synthesis of, by h.p.l.c., 4E31
 identn. of geometric isomers of, in fish tissue, by h.p.l.c., 12D217
- , **dehydro-**, identn. of geometric isomers of, in fish tissue, by h.p.l.c., 12D217
- Retinol-binding protein**, detmn. of, in plasma and urine, by immunoassay, 1D154
 in serum and urine, by enzyme-linked immunosorbent assay, 8D195
- Rhamnose**, detmn. of, in tobacco leaves, by g.l.c., 11D120
 titrimetric, periodate oxidation amplification method in, 10C19
- α -L-Rhamnosidase**, assay of, together with β -D-glucosidase, rapid method for, 6D310
- Rhapontigenin**, detmn. of, of plants, by h.p.l.c., 12E17
- , **deoxy-**, detmn. of, of plants, by h.p.l.c., 12E17
- Rhapontin**, detmn. of, of plants, by h.p.l.c., 12E17
- , **deoxy-**, detmn. of, of plants, by h.p.l.c., 12E17
- Rhenium**, complexes of, by fast-atom-bombardment and field-desorption m.s., study of, 5B21
 detmn. of, in catalysts, by spectrophotometry, 4B201
 in hydrometallurgical soln., by polarography, 7B115
 in molybdenite, by column chromatography - spectrophotometry, 1B116
- Rhenium heptoxide**, detmn. of selenium and tellurium in, by a.c. stripping voltammetry, 5B13
- Rhodium**, detmn. of, (2-acetyl)thioacetanilide in gravimetric, 1B139
 as bromo-anion complexes, by ion-pair partition chromatography, 4B181
 by a.a.s. with tungsten-tube atomizer, 9B159
 by extraction - a.a.s., 3B107
 by h.p.l.c., 3B105
 by ICP a.e.s., 8B10
 by ion-beam analysis, pre-concentration in, 12B157
 by spark-source m.s., pre-concentration on aluminium powder in, 3B12
 by spectrophotometry with 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol, 5B253
 1,5-diphenylcarbazide in spectrophotometric, 8B125
 in catalysts, by spectrophotometry, 4B201
 in electroplating soln., titrimetric, 12B163
 in geological materials, by extraction - a.a.s., 1B138
 in mixtures, by spectrophotometry, 6B20
 in nickel-plating electrolyte, by spectrography, 10B162
 in ores, by electrothermal a.a.s., 11B150
 in ores and flotation tailings, by a.a.s., 9B160
 in presence of carbon and iridium, chemical - absorptiometric, 10B14
 in rhodium - platinum alloys and rhodium-plating soln., by coulometry, 1B140
 in soln., by XRF, 5B263
 in wire, by spectrophotometry, 2B80
 spectrophotometric, 9B162, 9B167, 9B172
 2-thiobarbituric acid in spectrophotometric, 1B141
 detmn. of geometrical isomers of chelates of, 6B27
 sepn. of, by cation-exchange chromatography, 4B180
 from iridium, bis-(2-ethylhexyl) sulphoxide in reversed-phase paper-chromatographic, 5B249
 by t.l.c. on DEAE- or ECTEOLA-cellulose, 5B254

- Rhodium**, sepn. of, —continued
from other platinum-group metals, 7B134
by h.p.l.c., 10J34
- Rhodium alloys**, detmn. of rhodium in platinum-containing, by coulometry, 1B140
- Rhodopsin**, detmn. of, by r.i.a., 3D218
- Rhubarb**, detection of oxalic acid and oxalates in, enzymic degradation in, 3F20
detmn. of stilbene derivatives in, by h.p.l.c., 12E17
sepn. of sennosides of, by h.p.l.c., 3E11
- Rhus vernicifera**, analysis of urushiol from sap of, by h.p.l.c., 9D109
- Riboflavin**, detmn. of, by h.p.l.c., fluorescence detector for, 12J37
in lettuce, chicory and endive, 12F26
in milk, by fluorimetry, 3D242
in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31
in multivitamin preparations, by h.p.l.c., 9E30
in pharmaceutical preparations, 11E32
in presence of thiamine, by oscillopolarography, 5E28
segmentation in ring-open fluorimetry, 9J105
sepn. of, from cyanocobalamin, by h.p.l.c., three-dimensional data presentation in, 9J32
- Ribonuclease**, assay of, by extraction of radiolabelled product into ethyl acetate, 7D248
in biological materials, spectrophotometric, 12D244
detmn. of, by direct potentiometry, 7D186
sequence analysis of bovine pancreatic, by h.p.l.c. of amino-acids as phenylthiohydantoin derivatives, 5D180
- Ribose 1-phosphate**, detmn. of, by h.p.l.c. and hydrolysis - spectrophotometry, 8D107
- Ribose 5-phosphate**, detmn. of, by h.p.l.c. and hydrolysis - spectrophotometry, 8D107
- Ribose 1-phosphate, deoxy-**, detmn. of, by h.p.l.c. and hydrolysis - spectrophotometry, 8D107
- Ribosomes**, detmn. of proteins of *E. coli*, by h.p.l.c., 3D188
sepn. of proteins of, by h.p.l.c., 2D203
- Riboxamide**, detmn. of, in plasma, by h.p.l.c., 2D107
in urine and plasma, by h.p.l.c., 12D98
- Rice**, assay of nitrite reductase in roots of, spectrophotometric, 3D251
detmn. of antimony in, by hydride-generation a.a.s., 11F1
detmn. of butonate and its metabolites in, by g.c., 7G34
detmn. of cadmium, lead and copper in, by a.a.s., 7F5
detmn. of cyclopiazonic acid in, colorimetric, 10F10
detmn. of iodine in, by a.a.s., 5F16
detmn. of moisture in, microwave oven in, 6G1
detmn. of molybdenum in, by ion exchange - spectrophotometry, 4D57
detmn. of nitrogen in, by combustion and g.c., 11D26
detmn. of peroxidation of lipids in, by g.l.c. of TMS derivatives, 10F52
detmn. of trace metals in brown, by a.a.s., 7F4
detmn. of xanthomennin and viomellin in, by h.p.l.c., 4F25
- Rice flour**, detmn. of arsenic in, by a.a.s., 9H52
detmn. of thiamine in, by h.p.l.c. - post-column derivatization, 9F22
detmn. of trace elements in reference standard of, by n.a.a., 9F4
- Rifampicin**, detmn. of, in biological fluids, by h.p.l.c., 6D118
in pharmaceutical preparations and biological fluids, by ion-pair extraction - spectrophotometry, 4E58
review, 11E46
- Ritalinic acid**, detmn. of, in urine, by g.c. or t.l.c., 11D82
- Ritodrine**, detmn. of, in plasma, by h.p.l.c., 7D75
in serum, by h.p.l.c., 9D76
- Ro 13-6438**, detmn. of, in urine and plasma, by h.p.l.c., 8D71
- Ro 15-1788**, detmn. of, in plasma, by g.c., 1D52
- Rodenticides**, detmn. of brodifacoum in, by h.p.l.c., 2G31
- Ronidazole**, detmn. of, in animal feeds, by h.p.l.c., 6G25
- Roridin A**, detmn. of, in mouldy food, by t.l.c., 5F6
- Rosaceae**, detmn. of cyanogenic glycosides in seeds of, by gas-phase molecular spectrometry, 10E18
- Rosmarinic acid**, detmn. of, in medicinal plants, by h.p.l.c., 12E15
- Rotenone**, detmn. of, in water, by h.p.l.c., 10H86
- Royal jelly**, detmn. of 10-hydroxy-2-enoic acid in, by g.l.c., 4E21
- R-salt**, detmn. of, in synthetic food colours, by ion-pair liquid chromatography, 7F25
- Rubbers**, analysis of, by differential scanning calorimetry and thermogravimetry, 5C115
review, 9C91
analysis of blends of, by Curie-point pyrolysis - g.c., 11C77
analysis of hydrocarbon feedstock for synthetic, by g.l.c., 8C95
analysis of pyrolysis products of, by g.c., 6C64
analysis of synthetic, by pyrolysis - m.s., direct, 12C79
analysis of volatile compounds released from synthetic, trapping adsorbents for g.c. - m.s., 4C93
detmn. of additives in, review, 8C85
detmn. of boric acid in natural, 8C92
detmn. of sludge in natural, 8C93
detmn. of urethane cross-linking agents in, by g.s.c. or h.p.l.c., 4C99
detmn. of volatile *N*-nitrosamines in, of baby-bottle teats, by g.c. with thermal energy detection, 7C102
identn. of, in guayule, by pyrolysis - g.c., 9C90
particle size analysis of latices of, 3J122
- Rubidium**, detmn. of, by a.a.s., 1B18
by spectrophotometry, 5B32
- Rubidium**, detmn. of, —continued
electrode for, 10J135
in blood, by instrumental n.a.a., 8D13
in chlorostannates, by a.a.s., 2B53
in erythrocytes and plasma of pregnant women, by PIXE, 12D17
in serum, by m.s., 3D14
by XRF, 5D15
in silicates, by energy-dispersive X-ray spectrometry, 11B74
titrimetric, ion-selective indicator electrodes for, 3J104
extraction of, crown ether derivatives of ferrocene in, 9B14
in presence of non-ionic surfactant, 7B23
sepn. of, from other metals, by ion exchange, titanium^{IV} tungstoarsenate in, 8B25
- Rubidium-82**, sepn. of, from strontium-82, "hydrous tin^{IV} oxide" in, 3B8
- Rubidium chloride**, detmn. of caesium in, by laser-induced ionization, 3B26
isotopic analysis of, by spectrometry, 6B13
- Rubidium picrate**, extraction of, in presence of crown ethers and tributyl phosphate or triethylphosphine oxide, 6B39
- Rum**, detmn. of phenols in matured, by g.l.c. as 2,4-dinitrophenyl ethers, 8F61
by h.p.l.c., 8F62
- Rumen liquor**, detmn. of coenzyme F₄₂₀ in, by h.p.l.c. - fluorimetry, 7H75
- Ruminal fluid**, detmn. of ammonia in, electrode for, 12D40
- Ruthenium**, detmn. of, by a.a.s. with tungsten-tube atomizer, 9B159
by coulometric titrimetry, 9B161
by derivative spectrophotometry with 2-thiobarbituric acid, 6B170
by extraction - a.a.s., 3B107
by ICP a.e.s., 8B10
by ion-beam analysis, pre-concentration in, 12B157
by isotope-dilution analysis, dithizone in, 6B169
by spark-source m.s., pre-concentration on aluminium powder in, 3B12
extraction - spectrophotometric, 12B161
in alloys, spectrophotometric, 5B251
in catalysts, by a.a.s., 7B157
spectrophotometric, 9B182
in nickel, nickel ores and nickel sulphide, by chemiluminescence, 4B179
in ores and flotation tailings, by a.a.s., 9B160
in presence of carbon and iridium, chemical - absorptiometric, 10B14
in presence of osmium, extraction-spectrophotometric, 11B151
spectrophotometric, 9B170
in soln., by XRF, 5B263
in zinc - magnesium alloys and uranium fuel alloy, by spectrophotometry with pericyazine, 5B252
prochlorperazine bis(methanesulphonate) in spectrophotometric, 12B162
spectrophotometric, 9B162, 12B160
substituted pyrimidines in spectrophotometric, 10B164
extraction of, 1-carbonyl-3-thioxo-compounds in, 2B82
diethyldithiophosphate in, 4B187
sepn. of, from osmium, bis-(2-ethylhexyl) sulphoxide in reversed-phase paper-chromatographic, 5B249
polyurethan foam in, 9B171
from other platinum-group metals, 7B134
from rhodium, by extraction with thiocyanate and polyurethan foam, 9B163
- Ruthenocenophanes**, sepn. of, by t.l.c., 3C41
- Rutin**, detmn. of, in *Casimiroa edulis*, by h.p.l.c., 8E5
in *Ononis spinosa*, by h.p.l.c., 7D203
in pharmaceutical preparations and crude drug, by n.m.r., 3E13
in *Crataegus* preparations, by h.p.l.c. and t.l.c., 10E15
- Rye**, amino-acid sequencing of prolamins and glutelins of, by ion-exchange chromatography, 9G6
detmn. of aphos in, by g.l.c. and t.l.c., 5G38
detmn. of non-starch polysaccharides in flour and biscuits of, 6F12
- Rye flour**, detection of insect fragments in, colour test for, 10F26

Safflower-seed oil—continued

detmn. of triethyl phosphate in, colorimetric, 10F70
sepn. of fatty acid methyl esters of, by column chromatography on silver-loaded resin, acetonitrile as eluent in, 2F43

Sake, identn. of authenticity of, by carbon-isotope-ratio analysis, 7F91

Salads, detmn. of preservatives in delicatessen, by h.p.l.c., 9F16

Salbutamol, detmn. of, in plasma, by g.c. - m.s., 6D113

by h.p.l.c., 6D105, 9D87

h.p.l.c. of, effect of amine modifiers in mobile phase on, 7E30

Salicin, detmn. of, enzyme electrode for, 11D122

Salicylamide, detmn. of, with its metabolites, in biological fluids, by h.p.l.c., 2D71

Salicylate, detmn. of, by h.p.l.c., 2D63

in aq. soln. and serum, enzyme electrode for, 12J165

in blood, spectrophotometric, 3D49

in blood and urine, 7D37

in plasma, by spectrophotometry, 3D50

in serum, by h.p.l.c., 4D130

membrane electrodes for, 11J132

Salicylic acid, detmn. of, by cerimetry, 4E3

by spectrophotometry, 1C15

in blood and plasma, by h.p.l.c., 7D64

in pharmaceutical preparations, by h.p.l.c., 4E33

in phenacetin, by differential scanning calorimetry, 1E19

in plasma, by g.l.c., 6D82

by h.p.l.c., 3D48

in plasma and urine, by h.p.l.c., 4D100

in saccharin, by h.p.l.c., 11E55

in serum, by enzyme-multiplied immunoassay, 4D99

by g.l.c. of TMS derivatives, 4D102

interference in Trinder method for, 1D51

in tablets, by h.p.l.c., 9E34

solubility of, effect of polysorbate on, 3E24

—, **5-acetamido-**, detmn. of, in bile, by h.p.l.c., 5D91

—, **acetyl-**, detmn. of, by cerimetry, 4E3

—, **amino-**, detmn. of contaminants in calcium or sodium salt of, by densitometry after t.l.c., 8E49

—, **4-amino-**, detmn. of, in urine, with test strips, review, 1D2

—, **5-amino-**, detmn. of, in bile, by h.p.l.c., 5D91

—, **azodi-**, **sodium salt**, detmn. of, in serum, urine or faeces, by h.p.l.c., 9D75

—, **sodium salt**, detmn. of, in tablets, by first-derivative spectrophotometry, 7E20

Salicylic acid benzylidenehydrazides, detmn. of, by differential pulse polarography, 5C51

Salicylic acid derivatives, alkyl, g.l.c. of, 6C23

—, **haloalkyl-**, g.l.c. of, 2C30

Salicylic acid hydrazide, detmn. of, metol and cerium^{IV} in spectrophotometric, 10C41

Salicylic acid methyl ester, detmn. of, in inhalants, by g.l.c., 2E17

Salicylic acid sodium salt, detmn. of, by cerimetry, 4E3

1,4-diamino-2,3-dihydroanthraquinone as indicator in titrimetric, 3A6

in foods, non-aqueous titrimetric, 10F21

in pharmaceuticals, thermometric titrimetric, 12E7

Saliva, assay of β -N-acetyl-D-glucosaminidase in, indirect spectrophotometric, 7D257

assay of amylase and isoamylase in, centrifugal analyser in, 1D225

assay of isoenzymes of α -amylase in, by electrophoresis, 10D255

assay of trypsin-like protease of, fluorimetric, 11D249

detection of fatty acids, phenols and indoles in, by g.l.c., 3D91

detection of proteins in, by polyacrylamide gel electrophoresis, 3D177

detmn. of aminoglutethimide in, by g.l.c., 12D97

detmn. of anticonvulsants in, for therapeutic monitoring, 10D83

detmn. of caffeine, theophylline and theobromine in, by h.p.l.c., 10D58

detmn. of 17 α ,21-dihydroxypregn-4-ene-3,20-dione in, by fluorescence polarization immunoassay, 4D196

detmn. of drugs in, review, 10D50

detmn. of enantiomeric amino-acids in, by g.l.c. on Chirasil-Val, 12D166

detmn. of flavour compounds in, by g.l.c., 7F22

detmn. of hydrocortisone in, by polarization fluoro-immunoassay, 5D155

r.i.a. kit for, 4D198

detmn. of ionized calcium in, 4D33

detmn. of metoclopramide in, by h.p.l.c., 10D104

detmn. of nafimidone and its metabolite in, by h.p.l.c., 2D68

detmn. of nitrate and nitrite in, by h.p.l.c., 7F9

by spectrophotometry, 6H68

detmn. of nitrate in, by g.c. with f.i.d. or thermal energy analyser, 8D29

detmn. of oestriol in, by r.i.a., effect of sampling time on, 8D136

detmn. of phenazone and its metabolites in, by automated h.p.l.c., 7D62

detmn. of phenytoin in ultra-filtrates of, by g.l.c., 4D91

detmn. of progesterone in, by r.i.a., 5D156

detmn. of proteins in, by isoelectric focusing, 10D186

detmn. of sultopride in, by h.p.l.c., 9D65

detmn. of thallium in, electrode for, 9D28

detmn. of trace elements in, by a.a.s., 12D12

detmn. of trimethoprim in, by h.p.l.c., 5D95

Saliva—continued

detmn. of valproic acid in, by g.c. - m.s., 11D68

detmn. of verapamil in, by h.p.l.c., 2D94

extraction of local anaesthetics from, by adsorption on C₁₈ silica gel, 10D97

Salmon, detection of superoxide dismutase in blood of, by isoelectric focusing, 1D197

Salol, detmn. of, by cerimetry, 4E3

Salsolinol, detmn. of, in brain, by g.l.c., 3D134

Salts, detmn. of cadmium in, by extraction - differential pulse anodic-stripping voltammetry, 11B37

Salvia, detmn. of total phenols in root of, colorimetric, 9E16

Samarium, detmn. of, by a.a.s., intra-cavity laser apparatus for, 7B59

by spectrophotometry, 3B50

by X-ray spectroscopy, 11B44

in alloys with cobalt, by complexometric titration, 5B99

in biological or environmental materials, by fluorimetry, 5B100

in materials based on zirconium dioxide, by spectrophotometry, 6B85

in ores, polarographic, 9B75

in presence of europium, by spectrophotometry, 5B101

in uraniferous rock, by instrumental n.a.a., 5B96

by n.a.a., 10B61

in uranium hexafluoride, spectrographic, 12B76

methylthymol blue in amperometric titrimetric, 3B56

spectrometry of complexes of iodide of, with 18-crown-6, 12B68

Samarium oxide, detmn. of rare-earth metals in, by extraction chromatography - spectrography, 2B39

Samplers, activated charcoal dosimeters, thermal desorption in evaluation of, 11H21

cascade impactor, for aerosols, 2H6

for aerosols from flue gases, 8J1

diffusional, for nitrogen dioxide in air, 1H13

for aerosols, 11J5

comparison of inlets for, 1H3

high-vol. dichotomous virtual impactor as, 11J2

portable, 1H4

for air, at hazardous-waste sites, 5H6

automated, 10H1

of aluminium-reduction plants, 5H5

for air-borne particulates, 6H5, 11H5

automated, 6H12

portable, 3H3

ultra-high-vol., 9H10

for atmospheric dust, gravimetric, 8H7

for breath, 8D94

for carbon-fibre aerosols, inlet for, 11J3

for carbon monoxide in air, 3H8

for chloro-compounds and PCB in rain, automated, 9H66

for dust, 6H11

for gases, in air, diffusion denuder assembly as, 12H11

in g.c. analysis, 12J56

for gases or air, 1J7

for hazardous compounds in air, accuracy of, 11H22

for heavy metals in sea-water, 6H50

for inorganic acids in air, 11H13

for liquid steel, 6B153

for measurement of COD in sediments, 3H54

for nitrogen dioxide, in air, 6H21

passive, 6H19

for organic compounds, in air, retention properties of, 1H16

for paint vapours, passive diffusion, 11H30

for sulphur dioxide, in air, passive, 11H17

for waste water, automated, 6H94

glass-bulb grab-type, for organic solvents in air, 12H34, 12H35

laser, for metals and alloys, 8B3

micro-, for a.a.s., 1J12

tubes, for hydrocarbons in air, 11H26

Sampling, bias in composite, of waste waters, 7H72

of aerosols, calibration of small cyclones for, 10H7

spinning-duct centrifuge for, 1J123

of air, for organic pollutants, review, 8H21

of air-borne particles, apparatus for, 4H21

of aldehydes in air, by trapping as hydrazones, 11H23

of algae, 10D219

of arsenic in air, efficiency of filter, 9H19

of atmospheric pollutants, high-performance denuder for, 6H8

of biological and environmental materials, 12H6

of capillary blood, "Microtainer" tube for, 12D8

of carbonaceous air-borne particulates, 7H17

of chlorine, in air, 10H30

of distilled acids, siphon device for, 5J5

of ethylenediamine, from work-room air, 10H34

of gases, automatic thermal desorption from tubes for, 7H3

of ground water, 10H39

protocol for, 8H37

wells and devices for, 11H56

of metals in air, cascade impactors in, 10H9

of municipal waste, 12H103

of natural and waste waters, review, 8H39

of natural waters and sediments, apparatus for, 8H41

Sampling—continued

- of organic aerosols, volatilization artefact in, 11H20
- of organic compounds, in air, competitive adsorption in, 10H32
- effect of r.h. of air on efficiency of solid adsorbents for, 12H30
- effects of reactive inorganic gases on Tenax-GC on, 12H33
- polyimide sorbents for, 9H26
- sorbents for, 9H27
- in air of stacks, review, 8H20
- of PAH, in air, apparatus for, 5H32
- of PAH from incinerator, in-stack dilution technique for, 11H27
- of pollutant gases in work-place air, device for, 7H8
- of quicklime, hydrated lime and calcium carbonate, 9B37
- of sulphur dioxide, in air, tube diffusion dosimeter for, 4H27
- of terbufos, in air, system for, 5H37
- of volatile compounds in water, 11H57
- of water supplies, 10H71
- polyethylene containers for, in arson investigations, contamination and sample loss from, 7J1
- serum-separator blood-collection tubes for, drug losses in, 4D66
- sources and minimization of errors in, review, 6J3
- Sand**, detection of malathion in, spot test for, 3H69
- Sandstone**, analysis of corrosion products of, 7H2
- Sapulum sebliferum**, detmn. of triglycerides and estolides of, by h.p.l.c., 2F44
- Sapogenins**, sepn. of steroidal, by h.p.l.c., 11D147
- Saponins**, detmn. of, in *Panax ginseng*, by t.l.c. - densitometry, 11E13
- of Bupleuri radix and Shosaiko-To, by h.p.l.c., 3E14
- Sapphire**, analysis of thin films on, by elastic recoil detection, 12B14
- Sarcosine**, detmn. of, by h.p.l.c. with post-column reaction fluorimetric detection, 4D205
- , *N-nitroso*-, detmn. of, in malt or beer, by g.l.c., 4F70
- SAS 643**, sepn. of glucuronides of, in plasma, urine and bile, by h.p.l.c., 11D77
- Satranidazole**, detmn. of, in urine and blood, by g.l.c., 9D91
- Satsumas**, detmn. of cadmium, lead and copper in, by a.a.s., 7F5
- Scandium**, detmn. of, asymmetric bisazo-derivatives of chromotropic acid in spectrophotometric, 9B67
- azo-reagent in spectrophotometric, 9B70
- by gravimetry with sebatic acid, 4B77
- by reversed-phase paper chromatography, 2B35
- by spectrophotometry with Chrome Azurol S, 5B89
- by triple-wavelength spectrophotometry, 6B80
- Chrom Azurol S and surfactants in spectrophotometric, 3B53
- 5,7-dinitroquinolin-8-ol and Rhodamine in fluorimetric, 9B69
- fluorimetric, 9B68
- in aluminium alloys, in presence of titanium, by spectrophotometry, 5B80
- in aluminomagnesium spinel, by XRF, 4B195
- in blood, by instrumental n.a.a., 8D13
- in potassium chloride or sodium chloride, by fluorimetry, 4B78
- in powders, by scanning electron microscopy and energy-dispersive X-ray spectroscopy, 11J81
- in rocks, by spectrography, 1B8
- in soil, by graphite-furnace a.a.s., 6G10
- in uraniferous rock, by n.a.a., 10B61
- zephiramine and Eriochrome azurol B in spectrophotometric, 3B52
- extraction chromatography of, on fused dibenzoylmethane, 6B81
- sepn. of, from other radio-tracers, by paper chromatography, 4B21
- sepn. of radiotracers of, by h.p.l.c., 10B19
- Schiff bases**, identn. of, by t.l.c., 10C43
- Scintillation counting**, cells for, for detmn. of radon, 5J158
- detectors for, mercuric iodide as photo-, 6J172
- effect of dilution and correction of count-rate data in γ -, 1J97
- of positron-emitting radionuclides on t.l.c. plates, 11J120
- recovery and re-use of phials, Freon TE in, 11J121
- small-mass measurement device based on β -, 8J2
- , **liquid**, Cerenkov, effects of sample composition and phial type on, 5J156
- colour- or chemical-quenched, correction curve for, 6J173
- dual-label effect on quenching and isotopic ratios in, 4J161
- efficiency in, effect of phial composition and diam. on, 12J146
- fluids based on benzyl alcohol for, 10J127
- in detmn. of tritium, effect of phials and background on, 11B18
- of phosphorus-32, effect of carrier substance and pH on, 5J157
- sealed standards for, 3J99
- two-phase, in detmn. of tritiated oestriol, 11D150
- , **solid**, of mixtures of β - and γ -emitters, detector-ratio and discriminator-ratio methods in, 5J148
- Scirpenol, diacetoxo**-, detection of, in feeding-stuffs, by g.l.c., 1G8
- detmn. of, in maize, by g.c. - m.s. with selected-ion monitoring, 9G2
- in mouldy food, by t.l.c., 5F6
- identn. of, by direct supercritical-fluid injection m.s., 6D140
- Scopoletin**, detmn. of, in *Tetrapleura tetrapleura* fruit, by t.l.c. and polarography, 6E23
- Sebatic acid dimethyl ester**, detmn. of, in water, by g.c., 8H79
- Sebatic acid ester**, sepn. of, in plasticizers, by h.p.l.c. and t.l.c., 11C67
- Sebacohydrazide**, detmn. of, spectrophotometric, 3C20
- Secbutobarbitone**, detmn. of, in plasma, by g.l.c., 3D45
- in serum, by EMIT, 6D75
- Secbutobarbitone sodium**, detmn. of, in elixirs, by h.p.l.c., with post-column ionization, 4E34
- Secnidazole**, detmn. of, in urine and blood, by g.l.c., 9D91
- Secoiridoids**, m.s. and g.c. - m.s. of, review, 8D105
- Sediments**, assay of catalase in, electrochemical, 10H94
- detection of aromatic amines in, 3H64
- detmn. of acid-reactive sulphide in, by evolution of hydrogen sulphide, 6H72
- detmn. of alkylbenzenes in, by t.l.c. - g.l.c. and g.c. - m.s., 6H101
- detmn. of americium, curium, plutonium and thorium in, 1H28
- detmn. of americium in, by non-destructive photon counting, 6G9
- detmn. of arsenic, antimony and selenium in, by ICP a.e.s., 6H62
- detmn. of arsenic in, by a.a.s., 2B60, 3G5, 9H52
- by spectrophotometry, 3D24
- by XRF, 6B114
- by Zeeman flame a.a.s., 7H47
- detmn. of cadmium and lead in, by a.a.s., after digestion, 5H50
- detmn. of cadmium and silver in, by Zeeman-effect a.a.s., 3H39
- detmn. of calcium carbonate in, vacuum - gasometric, 7H35
- detmn. of chlorophenols and chloroguaiacols in, 5H80
- detmn. of cobalt in, spectrophotometric, 11H52
- detmn. of copper, lead, zinc and cadmium in, by cyclic stripping voltammetry, 2H38
- detmn. of ethoxylated alcohols and alkylphenols in, by h.p.l.c. with fluorimetric detection, 12H92
- detmn. of heavy metals in, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- by XRF, 4H56, 4H57
- review, 5H39
- detmn. of herbicides in, by g.l.c., 2H61
- detmn. of inorganic and organic carbon in marine, 6H60
- detmn. of ionic and alkyl-lead in, by g.c. - a.a.s., 10H52
- detmn. of lead in, by spectrophotometry, 6B101
- detmn. of lower fatty acids in lake, by h.p.l.c. and g.l.c., 9H72
- detmn. of mercury in, by a.a.s., 12H54
- detmn. of mercury in river, 5H48
- detmn. of metals in estuarine, by d.c. plasma a.e.s., 9H37
- detmn. of methylmercury in, by a.e.s., 5J94
- detmn. of muramic acid in marine, by hydrolysis, derivatization and h.p.l.c., 8H80
- detmn. of neutral herbicides in, by g.l.c., 7H69
- detmn. of neutral sugars in, by g.c., 12D115
- detmn. of nitrophenols in, by h.p.l.c., 11H67
- detmn. of organic carbon in river, automated analyser in, 2H55
- detmn. of organic matter in marine, 5H75
- detmn. of organochlorine pesticides in, by g.c. - m.s., 8G11
- detmn. of PAH in marine, by h.p.l.c., review, 2H54
- detmn. of PCB and organochlorine pesticides in, by capillary-column g.c., 11G36
- detmn. of PCB in, by g.c., 6H87
- by pyrolysis g.c. - m.s., 8H83
- detmn. of phthalate plasticizer residues in, by g.l.c., 6H93
- detmn. of phthalates in marine, by g.c. - m.s., 11H65
- detmn. of proteins in interstitial water in, by colorimetry, 8H81
- detmn. of radium-228 in, by measurement of Cerenkov radiation of actinium-228, 6B58
- detmn. of selenium in marine, by derivatization - g.c., 7H49
- by distillation - fluorimetry, 1B101
- by stripping - fluorimetry, 12H70
- detmn. of silver in marine, by graphite-furnace a.a.s., 7H33
- detmn. of sulphate in lake and core, with lead^{II}-selective electrode, 10H59
- detmn. of sulphide in, by colorimetry, 4H65
- detmn. of sulphur compounds in, by spectrophotometry oxidation, or reduction techniques for, 4H48
- detmn. of total amino-acids and proteins in, by g.c. after ninhydrin - carbon dioxide, 7H65
- detmn. of total nitrogen in, persulphate or Kjeldahl digestion in, 9H54
- detmn. of total organic carbon in, by wet-combustion - i.r. spectrometry, 3H56
- detmn. of trace metals in, inter-laboratory study of, 5H40
- detmn. of trace metals in river, by X-ray spectrometry, size fractionation for, 11H32
- detmn. of trace organic pollutants in, 9A6B
- detmn. of tributyltin in, by g.l.c. and g.c. - m.s., 11H59
- detmn. of tripropyltin chloride in, by g.c., 9H77
- extraction of anthracene from, efficiency of, 2H59
- extraction of hydrocarbons from, by stripping with nitrogen, 3H57
- extraction of metals from, review, 6H51
- extraction of organic compounds from, efficiency of, 2H52
- extraction of trace metals from, effect of extractant pH on, 12H48
- identn. of metals in river, by selective leaching, 7H30
- identn. of PAH and PCB in, 4H71
- identn. of tricyclic terpenes in, by g.c. - m.s., 11B156
- measurement of alkalinity of pore water from marine, by microcomputer-controlled titrimetry, 2H42
- measurement of COD in, 4H83
- sampler for, 3H54
- sampling of, apparatus for, 8H41
- sepn. of heavy metals in, sequential schemes for, 5H44
- sepn. of hydrocarbons in, by h.p.l.c., 7H55
- sepn. of organic compounds in lipid extracts of marine, by h.p.l.c., 7H62

- Seeds**, analysis of, 9A3B
 detmn. of fatty acids in, by h.p.l.c., 1F21
- Selegiline**, detmn. of, in plasma, by capillary g.c., 10D95
- Selenate**, detmn. of, by h.p.l.c. - ICP a.e.s., 3B68
 in water, by ion chromatography, 10H57
 sepn. of, from other oxoanions, by ion-exchange chromatography, 5B194
- Selenides**, organic, sepn. of cyclic, by h.p.l.c., 9C43
- Selenite**, detmn. of, by h.p.l.c. - ICP a.e.s., 3B68
 in water, by ion chromatography, 10H57
- Selenium**, detmn. of, by a.a.s., decontamination of graphite furnace in, 2J75
 hydride generation in, 8B97
 by a.a.s. of hydride, interference by nickel in, 12B112
 by a.a.s. or a.e.s., as hydride, 5J89
 by a.e.s., source in, 5J94
 by a.f.s., 6J145
 by amperometric titration as selenous acid, 12B121
 by cathodic-stripping voltammetry, removal of interfacing species in, 5B193
 by furnace atomic non-thermal excitation spectrometry, 6J135
 by graphite-furnace a.a.s., 9B106
 graphite-cloth ribbon in, 12B122
 by hydride-generation a.a.s., interference by cobalt, copper, iron and nickel in, 12B123
 by ICP a.e.s., with hydride generation, 5J102
 by spectrophotometry or ion chromatography after extraction with isopropyl (methyl)thiocarbamate, 7B50
 in air, by PIXE, 10H3
 in antiseborrhoeic shampoo, 4E61
 in biological and agricultural materials, by fluorimetry, 2D42
 in biological and inorganic samples, by a.a.s., optimization of, 9D33
 in biological fluids, by electrothermal a.a.s., 9D34
 safe digestion method for, 7D33
 in biological materials, by a.a.s., 5D33
 by differential pulse cathodic-stripping voltammetry, 6D48
 by isotope-dilution g.c. - m.s., 5D34
 by voltammetry, 2D43
 in biological materials and waters, 11D30
 in biological materials or plants, hydride generation - a.a.s. for, 2D46
 in biota, by a.a.s., 12D108
 in blood, by flameless a.a.s., 2D44, 2D45
 by instrumental n.a.a., 8D13
 fluorimetric, 8D30
 in bone, by ICP a.e.s., 2D10
 in cobalt - selenium - molybdenum system, polarographic, 9B123
 in environmental and biological samples, 4H2
 in equine blood, by hydride generation - a.a.s., 5D32
 in foods, by flameless a.a.s., 4F5
 in hair, by n.a.a., 2D39
 in iron artefacts, by n.a.a. and a.a.s., 11B14
 in marine organisms, by a.a.s., 3D26
 in marine sediments, by derivatization - g.c., 7H49
 by distillation - fluorimetry, 1B101
 by ICP a.e.s., 6H62
 by stripping - fluorimetry, 12H70
 in mineral waters, by a.a.s., 9H50
 in mushrooms, by a.a.s., 5F40
 in nickel-based materials, by a.a.s., 5B248
 in ores and rocks, by pulsed-excitation spectroscopy, 11B105
 in potable water, by a.a.s., 9H40
 in rhenium heptoxide, by a.c. stripping voltammetry, 5B213
 in river, tap- or sea-water, by a.a.s., 3H49
 in rocks, by automated hydride generation - a.a.s., 10B120
 in serum, by graphite-furnace and hydride-evolution a.a.s., 4D56
 by PIXE, 12D45
 in silicate-rock reference materials, by a.a.s., 9B92
 in soil, rocks, plants and meat, by a.f.s., 4G14
 in tissues, by extraction - photometry, 6D49
 in water, by ion-exchange chromatography, 5B194
 by n.a.a., 6H47
 titrimetric, 10H58
 in zinc ores in presence of lead and copper, by a.a.s., 11B35
 modified ion-exchange resin for sorption in, 11B106
 naphthalene-2,3-diamine in fluorimetric, removal of reagent impurity in, 10B119
 sample decomposition and pre-concentration in, review, 7B1
 detmn. of silver, gold, arsenic, cadmium, gallium, antimony and thallium in, by n.a.a., 4B130
 detmn. of tellurium in, by flame a.a.s., 4B132
 detmn. of trace, in copper alloys, by a.a.s., 10B36
 in food and biological reference materials, by n.a.a., 9F4
 in nickel alloys, by electrothermal a.a.s. with graphite platform, 9B155, 9B156
 detmn. of trace elements in, by extraction - spectrography, 11B107
 detmn. of trace elements in semiconductor, by n.a.a., 9B124
 extraction of, with dithiocarbamates, 6B22
 reduction of, substances for, 6B126
 sepn. of, by anion-exchange resin, 1B102
 by h.p.l.c., as xanthate complexes, 4B24
- Selenium-75**, detmn. of, by liquid-scintillation counting, 5B192
 in presence of cerium-144 and iodine-131, by γ - γ coincidence spectrometry, 2J106
- Selenosulphides**, sepn. of cyclic, by h.p.l.c., 9C43
- Selenous acid**, detmn. of, by amperometric titration, 12B121
- Semen**, assay of lactate dehydrogenase isoenzyme C₄ in, bichromatic analyser in spectrophotometric, 2D228
 assay of prostatic acid phosphatase in plasma of, by enzyme immunoassay, 4D329
 detection of acid phosphatase in, in presence of blood, reagent for, 4D332
 detection of choline in, by t.l.c., 1D134
 detection of zinc in stains of, colorimetric, 4D36
 detmn. of F-series prostaglandins in, by g.l.c. - m.s. of methyl - trimethylsilyl derivatives, 4D166
 detmn. of organochlorine pesticides in, by g.c., 4D143
 detmn. of trace elements in, by a.a.s., 4D38
 identn. of acid phosphatase in, by isoelectric focusing, 1D213
 screening for acid phosphatase in stains of, sodium thymolphthalein phosphate in colorimetric, 8D254
- Semicarbazide**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 by iodimetry, amplification reactions in, 4C26
- , thio-**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 by electrochemistry after reaction with arylhalosulphonamides, 4C31
 in metal complexes, by titrimetry with *N,N*-dibromobenzenesulphonamide, 4B100
- Semicarbazones**, **thio-**, sepn. of, by t.l.c., 11C25
- Semiconducting materials**, analysis of, radiochemical, 11B164
 analysis of layers of, by secondary-ion m.s., 6B183
 analysis of reference, by laser-source m.s., 11J114
 detmn. of chlorine, bromine and iodine in, by n.a.a., 5B286
 detmn. of chlorine in, by molecular-absorption spectrophotometry of diatomic species, 9B136
 detmn. of gadolinium and dysprosium in, by spectrophotometry, 4B82
 detmn. of gallium, by ICP a.e.s., 10B178
 detmn. of gallium in, by spectrophotometry, 5B244
 detmn. of phosphorus and boron in, by n.a.a., 2B92
 detmn. of thallium in, by complexometry, 1B168
 detmn. of thickness of films on, instrument for white-light interferometric, 1B165
 detmn. of trace elements in, by electrothermal a.a.s., 9B186
 detmn. of trace elements in gallium arsenide, by visible-light-induced luminescence, 9B188
 in sensor for hydrogen, 8B19
 iron yttrium garnet, layer-by-layer spectral analysis of films of, 8B141
 mixed-metal-oxide thermistor, for detection of atomic hydrogen, 10J4
 Schottky barrier diode, for detmn. of hydrogen, 5B27
 sepn. of trace elements from, 12B185
 surface analysis of, by secondary-ion m.s., review, 12B184
- Seminal plasma**, detmn. of phospholipids in, by h.p.l.c., 2D148
- Semi-xylenol orange**, purification of, by h.p.l.c., 2A9
- Senna**, analysis of glycosides in, by h.p.l.c. with multi-channel photometric detection, 4E17
 sepn. of sennosides of, by h.p.l.c., 3E11
- Sennosides**, sepn. of, of rhubarb and senna, by h.p.l.c., 3E11
- Sensors**, chemical - fibre optic, review, 9J68
 chemical micro-, review, 9J123
 fibre, review, 7J142
 fibre optic, for *in vivo* detmn. of oxygen in blood and tissue, 9D31
 optical, immobilized calcein as reagent in, 12A4
- Separation**, device for, 2J2
 of gases, carbon membrane for, 6J4
- Sepiapterins**, detmn. of, in blood, by h.p.l.c., 3D137
- Septamycin**, detection of, by t.l.c. - m.s., 8J51
- Septonex**, t.l.c. and g.c. of in evaluation of stability, 10E36
- Serine**, detmn. of, by polarography of 2,4,6-trinitrophenyl derivatives, 9D178
 in blood or blood plasma, by fluorimetry, after oxidation and complexation with acetylacetone, 4D221
 in sea-water, by h.p.l.c., 3H62
- Serine proteinase**, assay of, amino-acid and dipeptide derivatives of rhodamine as substrates for, 4D321
- Serpentine**, detmn. of metals in, by a.a.s., solubilization in, 1B155
- Sesame oil**, detection of, in coloured fatty foods, 6F80
 colorimetric, 9F55
- Sesame-seed oil**, detmn. of tritoyl phosphate in, colorimetric, 10F70
- Sex-hormone-binding globulin**, detmn. of, in plasma, by electroimmuno-diffusion, 10D204
- Shale**, analysis of, instrumental, 4B191
 analysis of oil, by automated thermogravimetry, 1C26
 by n.m.r., symposium, 1A1B
 in estimation of pollution potential, 1C25
 detmn. of sulphur and nitrogen in oil, 8C60
 detmn. of sulphur in oil, by a.a.s., 2B86
 thermal analysis of oil, review, 7C53
- Shale oil**, analysis of polar components of, by g.c. - m.s., 11C44
 characterization of, by h.p.l.c. - polarimetry, 12J44
 detmn. of phenols in, by h.p.l.c., 2C50

Shale oil—continued

- identn. of *m/e* 121 fragments in g.c. - m.s. of, 12C48
- Shampoo**, analysis of, by h.p.l.c., 3C57
- analysis of antiborbohoic, 4E61
- detmn. of 5-bromo-5-nitro-1,3-dioxan in, by chromatography and spectrometry, 5C92
- detmn. of ionic surfactants in, dodecyl sulphate-selective electrode in, 8C70
- detmn. of phenols in, by h.p.l.c., 11C57
- detmn. of tetramethrin and piperonyl butoxide in, by capillary-column g.c., 11E50
- Shark-liver oil**, detmn. of tritoly phosphate in, colorimetric, 10F70
- Shark-muscle powder**, detmn. of mercury in, by a.a.s., 4D39
- Shaving cream**, detmn. of 4-hydroxybenzoates in, 11C57
- Shellfish**, detmn. of ammonia and urea in, enzymic - spectrophotometric, 9F28
- detmn. of antimony in, by hydride-generation a.a.s., 11F1
- detmn. of mercury in, by gold amalgamation - gas-phase detection, 10D33
- detmn. of methylmercury in, by g.l.c. with e.c.d., 4F33
- detmn. of paralytic shellfish poison in, by h.p.l.c., 3F16
- detmn. of tetramethylammonium ion in, by ion chromatography, 8F34
- detmn. of volatile organic compounds in, by g.l.c., 4D139
- Sherbet**, detmn. of monoglycerides in, by g.l.c., 11F7
- Sherry**, detmn. of polyphenols in, by spectrophotometry, 7F88
- Shikimic acid**, sepn. of, from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- Shosaike-To**, detmn. of saponins of, by h.p.l.c., 3E14
- Shrimps**, detmn. of ammonia and urea in, enzymic - spectrophotometric, 9F28
- detmn. of dyes in products of, by h.p.l.c., 8F35
- extraction of light filth from, brine-saturation technique for, 7F47
- Silage**, detmn. of ammonia in, gas-sensitive electrode, 6G19
- detmn. of benzoic acid and sodium benzoate in, by g.l.c., 7G18
- detmn. of lactic acid in, by colorimetry, 7G19
- detmn. of organic acids in, by h.p.l.c., 2G12
- detmn. of PCB in, 11G18
- detmn. of urea in, 5G23
- extraction of carotene from grass- and hay-, 2G14
- Silane**, detmn. of phosphorus, arsenic and antimony in, by emission spectrometry, 1B68
- , **tetrapropoxy-**, detmn. of, in silicone foams, by g.c., 7C97
- , **trichloro-**, detmn. of antimony in, by n.a.a., 8B65
- Silane-hydrogen**, detmn. of, in silicone foams, by FT i.r., 7C97
- Silanes, alkoxytrimethyl-**, identn. of, by g.c., 3C24
- , **amino-**, identn. of, by g.c., 3C24
- Silanol, methylidiphenyl-**, detmn. of, in silicone foams, by gel-permeation chromatography, 7C97
- Silanol**, detmn. of, in silicone foams, by FT i.r., 7C97
- Silica**, analysis of, Japanese standard methods for, 12B84
- analysis of surface of, by head-space g.c., 11J49
- chemically modified, in inorganic analysis, review, 7J14
- detmn. of, in aerosols, by lidar spectrometry, 10H2
- in environmental mineral dust, by i.r. spectrophotometry, 4H30
- in geological samples, by cyclic n.a.a., 11B157
- in iron-ore concentrates, by XRF, 11B130
- in pptd. sodium aluminosilicates, enthalpimetric, 11B79
- in red mud, review, 1B47
- in silicate reference materials, statistical comparison of spectroscopic techniques in, 11B73
- in silicate rocks, spectrophotometric, 8B67
- in slags and dolomite, 10B144
- in solid waterglass, by XRF, 1B70
- in zeolites, by direct-injection enthalpimetry, 5B136
- detmn. of amino-groups in amine-modified, by spectrophotometry, ninhydrin in, 2B52
- detmn. of biogenic, in water, alkaline digestion methods for, 9H71
- detmn. of gold in layers on, by XRF, 11J75
- detmn. of hydrogen in, by resonance nuclear reactions induced by fluorine-19 or nitrogen-15 ions, 12B30
- detmn. of impurities in, by spectrography, 10B81
- detmn. of reactive, suspended and total, in water, by spectrophotometry, 6B33
- Silica gel**, detmn. of hydroxysilyl groups on, 5J25
- Silicate**, detmn. of, in washing powder, by voltammetry, 6C46
- Silicates**, analysis of, by a.a.s., 1J65
- detmn. of boric oxide in, by spectrophotometry, 5B139
- detmn. of copper in, by spectrophotometry or fluorimetry, 4B40
- detmn. of iron in, by extraction - absorptiometry, 11B75
- detmn. of lanthanoids in, by n.a.a., 5B137
- detmn. of phosphorus in, by spectrophotometry after lithium carbonate - boric acid fusion, 5B142
- detmn. of silica and alumina in reference materials, statistical comparison of spectroscopic techniques in, 11B73
- detmn. of soluble, in environmental materials, spectrophotometric, 12H7
- detmn. of sulphur in, by i.r. spectrometry following combustion, 8B68
- detmn. of tin in, by spectrophotometry, 4B109
- detmn. of titanium dioxide in, by spectrophotometry, 5B138
- waterglass, detmn. of sodium and potassium oxides and silica in solid, by XRF, 1B70
- Silicic acid, hexafluoro-**, detmn. of available fluorine in, by distillation and potentiometric titration, 6B139
- Silicon**, analysis of, by wavelength-dispersive X-ray spectrometry with transmission electron microscope, 9J76
- analysis of solar-grade, by n.a.a., 11B71
- analysis of surface layers of, by m.s., 5B135
- analysis of thin films of, X-ray-induced Auger micro-probe, 3B62
- detection of, in gas phase, review, 9H1
- detmn. of, by molecular-emission-cavity spectrometry, 5B134
- by α -particle-induced γ -ray emission, 5B10
- by photometry and chemiluminescence, 6B94
- in alloys with aluminium, by n.a.a., 6B70
- in aluminium, by ICP a.e.s., 6B69
- by spectrography, 6B72
- in aluminium alloys, by gamma-activation spectrometry, 4B47
- in ammonium and alkali-metal salts, by spectrophotometry, 8B78
- in amniotic fluid, by PIXE - a.e.s., 1D23
- in bauxite, by n.a.a., error in, 8B45
- in brown coal, by X-ray technique, 5B274
- in calcium oxide, spectrographic, 11B32
- in cement and silicates, by a.a.s., 1J65
- in coal, fly ash and soil, by 14-MeV n.a.a., 7B145
- in gallium arsenide, by spectrophotometry, 2B93
- in laser glass, spectrophotometric, 9B179
- in metals, by fluoride separation - molybdenum blue spectrophotometry, 10B80
- in natural water, review, 9H47
- in nickel ores, by radiative neutron capture, 12B156
- in organosilicon compounds, by a.a.s., 4C33
- in plant material, extraction method for, 11D21
- in presence of phosphorus, by spectrophotometry, 6B113
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in rocks, by n.a.a., 3B16
- in silicates, by a.a.s., solubilization in, 1B155
- in slag, by XRF, 4B158
- in soil, by XRF, 4J92
- spectrophotometric, 11G10
- in steel, by emission spectrometry, Grimm lamp in, 10B149
- by proton-induced prompt-photon spectrometry, 7B127
- by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
- hollow-cathode discharge tube for, 5B235
- niobium, tantalum, molybdenum and slag, by chlorination - m.s., 8B64
- in steel and alloys, by gravimetry, 1B126
- in tungsten, by n.a.a., 5B206
- in zeolites, by γ -ray emission spectrometry, 3B111
- detmn. of boron in, by thermal neutron depth profiling, 12J137
- detmn. of boron in coatings on, 9B90
- detmn. of carbon and oxygen in, by helium-3-activation analysis, 10B83
- detmn. of dopants in, automated apparatus for, 1B67
- detmn. of fluorine in near-surface region of, by proton-induced resonance reaction, 12B130
- detmn. of gallium in, by chemical etching and a.a.s., 9B89
- detmn. of hydrogen in, by resonance nuclear reactions induced by fluorine-19 or nitrogen-15 ions, 12B30
- detmn. of implanted arsenic in, by Rutherford back-scattering, 12B82
- detmn. of impurities in, 1B72
- by spectrography, 4B103
- detmn. of impurities in wafers of, by FT i.r. spectrophotometry, 6J148
- detmn. of iron in semiconductor-grade, by a.a.s., 6B95
- detmn. of light elements in doped amorphous, by elastic recoil detection, 12J132
- detmn. of oxygen in, by inert-gas fusion - g.c., 4B104
- detmn. of phosphorus and antimony in, by n.a.a., 4B106
- detmn. of phosphorus in, by spectrophotometry, 4B105
- detmn. of soluble, in water, filtration methods for, 8H61
- detmn. of trace, in aluminium salts, spectrophotometric, 10B55
- in de-ionized water, by graphite-furnace a.a.s., 12B31
- in sodium, spectrophotometric, 12B35
- detmn. of trace aluminium in, by a.a.s., suppression of matrix interference in, 11B72
- detmn. of trace elements in semiconductor-grade, by n.a.a., 4B131
- Silicon-32**, detmn. of, by liquid scintillation counting, 4B102
- Silicon alloys**, detmn. of gallium in germanium-containing, by ICP a.e.s., 10B178
- Silicon carbide**, analysis of powdered, 7B75
- detmn. of iron in, spectrophotometric, 8B113
- Silicone foams**, analysis of, by g.c., gel-permeation chromatography and FT i.r., 7C97
- Silicones**, detmn. of water in, with modified Karl Fischer reagents, 4C15
- Silicon nitride**, analysis of low-pressure chemical vapour deposition layers of, 4B203
- detmn. of, in steel, 4B156
- Silicon nitride oxide**, analysis of layers of, 4B203
- Silk**, detmn. of amino-acids in treated, by g.c. - m.s., 11C70
- Siloxanes**, detmn. of organic, 9C22
- , **amino-**, identn. of, by g.c., 3C24
- Silver**, analysis of thin films on, by Raman scattering and Auger spectroscopy, 5B47

Silver—continued

- complexes of, by fast-atom-bombardment and field-desorption m.s., study of, 5B21
- detmn. of, 1,3-bis-(4-nitrophenyl)triazene in spectrophotometric, 8B31 by a.a.s. with laser evaporation, matrix interference in, 11J88 by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
- by coulometric titration, 8B9
- by flow injection - spectrophotometry, 12B26
- by furnace atomic non-thermal excitation spectrometry, 6J135
- by ICP a.e.s., 8B10
- by paper chromatography - a.a.s., 10B3
- by peak paper chromatography, 4B55
- by potentiometric titration, electrode for, 8J124
- with ammonium 2-thio-orotate, 4B52
- by potentiometric titration with lead diethyldithiocarbamate, 7B26
- by spectrophotometry, reagents for, 5B42
- by spectrophotometry with dithionite, 5B43
- by thermometric titrimetry, 5B208
- by titrimetry, effect of thiocyanate on, 1B7
- hexachloroantimonate - iodide indicator reaction in, 5B45
- by titrimetry with chloramine T-selective electrode, 4B51
- by titrimetry with manganese^{II}, 5B44
- 4-(5-chloro-2-pyridylazo)-*m*-phenylenediamine in spectrophotometric,* 12B42
- chronovoltammetric, with vitreous-carbon electrode, 10B40
- electrode for, 10J134
- in bismuth oxide or in rocks, by a.a.s., 4B54
- in cadmium selenide, by a.a.s., 9B49
- in copper, mercury, palladium and platinum, by spectrophotometry, 2B21
- in copper intermediates, by flame a.a.s., 10B38
- in copper ore wastes and concentrates, by anodic-stripping voltammetry, 5B46
- in copper products, by a.a.s. after solvent extraction, 4B50
- in foil, by wt. titration, end-point detection in, 12J5
- in geochemical samples, by a.a.s., 3B40
- in geological materials, by extraction - a.a.s., 1B138
- by n.a.a., yield tracers in, 12J138
- in glass, by a.a.s. with direct furnace volatilization, 8B134
- by potentiometric titration, 12B179
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in marine sediments, by graphite-furnace a.a.s., 7H33
- in mercury, by voltammetry, 8B40
- in mineral water, by chemiluminescence, 3H35
- in nickel - copper matte, by extraction - a.a.s., 1B137
- in nickel-plating electrolyte, by spectrography, 10B162
- in ores and concentrates, by a.a.s., 7B32
- in photographic films, by XRF, 6C65
- in photographic fixing soln., reagent for spectrophotometric, 6C66
- in presence of chloride, gravimetric, 11B29
- in presence of copper, 1,4,8,11-tetrathiacyclotetradecane in extraction - spectrophotometric, 11B26
- in presence of nickel, iron, copper and sulphate, by a.a.s., 1B24
- in rocks, by m.s. with isotope dilution, 5A17
- in sea-water, by a.a.s. with second-surface atomization, 9J90
- by pptn. and a.a.s., 8H52
- in sediment, by Zeeman-effect a.a.s., 3H39
- in selenium, by n.a.a., 4B130
- in silicon, by spectrography, 4B103
- in silver coin, by amperometry, 4B44
- in silver-plating electrolytes, in presence of cyanide, by ion-selective electrode, 4J165
- in silver-plating soln., by potentiometric titrimetry, 3B36
- in silver - tin alloy, by X-ray micro-probe analysis, 4B56
- in steel, by a.a.s., 5B232
- in sulphide ores, by a.a.s., 3B41
- in tellurium, by n.a.a., 1B103
- in triuranium octaoxide, by a.a.s., 4B97
- in waste water, by spectrophotometry, 3H74
- in water, by chemiluminescence, 6H53
- by n.a.a., with pre-concentration by co-precipitation of dithionite complex on phenolphthalein, 4H58
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodi-thioate, 7B44
- in zinc sulphide, by stripping chronovoltammetry, 5B65
- iodide and Rhodamine B in spectrophotometric, 9B145
- ion-selective electrodes for, 12J153
- kinetic fluorimetric, 1B22
- mercaptopropionic acid in titrimetric, 10B39
- 1,10-phenanthroline and cadion in spectrophotometric, 5B15
- piezoelectric quartz crystal detector in, 7B31
- reagent for spectrophotometric, 6B50
- sub-stoichiometric extraction in radiochemical, 1B23
- 5-*t*-butyl-2-mercaptophenol in extraction - spectrophotometric, 12B41
- vanadium^{IV} in titrimetric, 3A10
- detmn. of antimony in, by spectrophotometry, 1B30
- detmn. of cadmium in, by polarography, 7B33
- detmn. of copper in, by amperometry, 4B44

Silver—continued

- detmn. of indium-111 produced by α -irradiation of, 11B100
- detmn. of tin in, by polarography, 1B29
- detmn. of trace, by inhibition of catalysis by xanthine oxidase, 11B7
- by thermal-ionization m.s., direct electro-deposition in, 11J110
- extraction of, crown ether complex picrates in, 11C30
- β -diketones in solvent, 5B11
- from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
- from thiourea soln., electrolytic, 9B28
- sepn. of, by cation-exchange chromatography, 4B180
- by ion flotation, 4B17
- from aq. soln., ion-exchange sorbent for, 12B43
- titration of, with thionamide, silver electrode in amperometric, 4B53
- Silver alloys**, analysis of, by Auger-electron spectroscopy, matrix-effect correction in, 7J96
- analysis of surface of, by low-wattage glow-discharge emission spectrometry, 12B44
- Silver bromide**, detmn. of, in photographic films, by XRF, 6C65
- detmn. of chlorine in, by molecular-absorption spectrophotometry of diatomic species, 9B136
- Silver chloride**, detmn. of, in photographic films, by XRF, 6C65
- Silver foil**, detmn. of silver in, by wt. titration, end-point detection in, 12J5
- Silver iodide**, detmn. of, in photographic films, by XRF, 6C65
- Silver nitrate**, detmn. of trace metals in, by a.a.s. after sepn. from silver, 9B29
- Silymarin**, analysis of preparations containing, by h.p.l.c., 5E18
- Simaruba glauca**, detmn. of quassinoids in seeds of, by h.p.l.c., 4G19
- Simazine**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Sinapic acid**, detmn. of, in rapeseed flour, by g.l.c., 9G10
- sepn. of *cis*- and *trans*-isomers of, by h.p.l.c., 8C34
- Sissomicin**, detmn. of, in ointment, by h.p.l.c., 8E35
- in serum, by automated h.p.l.c., 9D50
- by h.p.l.c., 9D51
- SK&F 93479**, detmn. of, in plasma, by h.p.l.c., 2D98
- Skin**, assay of *N*-acetylglucosamine-6-sulphate sulphatase in, by electrophoresis, 11D257
- assay of collagenase in human, by ELISA, 8D250
- assay of sterol-sulphatase in, radiochemical, 12D235
- detection of cannabis on hands, by g.c. - m.s. analysis of swabs, 3D35
- detmn. of cholesterol in, enzymic - spectrophotometric, 6D183
- detmn. of dicyanodiamide - formaldehyde resin on, by g.l.c., 5H35
- detmn. of DNA in epidermal, fluorimetric, 12D210
- detmn. of lead and nickel in, by electrothermal a.a.s., 7D31
- detmn. of monohydroxy-fatty acids in psoriatic, by g.c. - m.s., 11D126
- Slag**, analysis of, 6B154
- automated apparatus for fusion before ICP a.e.s., 6J18
- microwave system for acid dissolution of samples in, 8B1
- detmn. of calcium oxide, magnesium oxide and silica in, 10B144
- manganese oxide, iron oxide, silicon and aluminium in, by XRF, 4B158
- detmn. of gold and silver in, by flame a.a.s., 10B38
- detmn. of indium in, by spectrophotometry, 5B84
- detmn. of iron in, spectrophotometric, 9B143
- detmn. of manganese in, by coulometric titration, 12B133
- detmn. of silicon and arsenic in, by chlorination - m.s., 8B64
- detmn. of sulphur in, by combustion - i.r. absorptiometry, 7B93
- by i.r. spectrometry following combustion, 8B68
- by potentiometric titration, 2B72
- detmn. of trace elements in, by thermal n.a.a., 5B277
- detmn. of uranium in, oscillographic, 10H87
- Slate**, detmn. of sodium and potassium in, by flame-photometric emission, 3B24
- Smoke**, characterization of polycyclic aromatic ketones in wood, coal and incinerator, by h.p.l.c. and g.c. - m.s., 5H33
- detmn. of organic and inorganic particulate pollutants in, 7H2
- Snake venom**, sepn. of toxins in, from cobra, by h.p.l.c., 8D185
- Snow**, detmn. of cadmium and lead in, 8H54
- detmn. of chloride, nitrate and sulphate in, by ion chromatography, 5H71
- detmn. of elements in, by PIXE, instrumental n.a.a. and a.a.s., 6H43
- detmn. of heavy metals in, by voltammetry, 12H51
- detmn. of lead-210 and polonium-210 in, by α -particle spectrometry, 4H62
- detmn. of sodium, potassium, sulphate, nitrate, chloride and ammonium ions in, by ion chromatography, 8H43
- detmn. of sulphur in, by PIXE, 3H51
- Snuff**, identn. of toxic additives in, by t.l.c., 4E22
- Soap**, detmn. of, in water, spectrophotometric, 8H94
- detmn. of free fatty acids in raw material for, by g.l.c., 4C73
- detmn. of metal, in kraft mill brownstock pitch, by g.c., 4C83
- Sodium**, analysis of reactor-coolant, by X-ray diffraction, 8B24
- depth profiling of, in solids, by proton activation, 12B23
- detection of, by fluorimetry on uranyl acetate - zinc acetate-treated filter-paper, 4B33
- ion-selective membranes containing neutral ionophores in, 5J169
- detmn. of, by graphite-furnace a.e.s., 9B15
- by ICP a.e.s., interference by other alkali metals in, 6B35
- by ion chromatography, 4B32
- by α -particle-induced γ -ray emission, 5B10

Sodium, detmn. of, —continued

- 12-crown-4 in extraction - spectrophotometric, 9B18
 electrode for, 12B34, 12J155
 in aluminium alloys, by a.e.s., 2B32
 in biological fluids, errors in automated, 1D13
 in biological materials, by instrumental n.a.a., 10D22
 in blood, by potentiometry, 8D17
 ion-selective electrodes in, review, 5D17
 potentiometric, 10D21
 serum and plasma, by ion-selective electrode, 10D19
 with Ektachem 400 Analyzer, 6D9
 in blood or urine, by ion-selective electrode, 5J171
 in body fluids, ion-selective electrodes in, 12D18
 in butter, by a.a.s., 7F65
 in calcium oxide, spectrographic, 11B32
 in cellulose, by flame a.a.s., 5C94
 in cheese, by ion-selective electrode, 2F29
 in Chinese cabbage, by flame emission spectrometry, digestion methods for, 10F51
 in clinical analysis, ion-selective electrodes or flame photometry in, 11D14
 in crude oil, by a.a.s., 8C52
 in fertilizers, by a.a.s., 4G16
 in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
 in food, ion-selective electrode in, 6F7
 in geological materials, by α -particle bombardment - prompt γ -ray spectrometry, 9B175
 in germanium, by laser-atomic photo-ionization, 4J128
 in glauconite, ion-selective electrode in, 9B19
 in greases, by a.a.s., 4C59
 in industrial water, 9H43
 in maize oil, by a.a.s., sample preparation for, 2F42
 in meat products, by a.e.s., 10F30
 in plasma, serum and whole blood, with microprocessor-controlled ion-selective electrodes, 7D19
 in plasma and urine, by potentiometry, 1D12
 in polyacrylamide soln., by flame a.a.s., impaired nebulization in, 10C80
 in potable water, by a.a.s., 9H40
 in potassium dihydrogen phosphate, by emission spectrometry and a.a.s., 10B99
 in red mud, review, 1B47
 in serum, automated analyser for, 9D10
 by flow-injection analysis - a.a.s., 12D19
 by flow injection - ICP a.e.s., 10D20
 electrode system for, 6D30
 in serum and urine, by ICP a.e.s., 1D17
 by potentiometry, electrode for, 2D13
 ion-selective-electrode analyser for, 9D18
 in silicates, by a.a.s., solubilization in, 1B155
 in slate, by flame-photometric emission, 3B24
 in snow and ice, by ion chromatography, 8H43
 in sodium reactor coolant, by X-ray diffraction, 8B24
 in soil, 10G10
 in tablets for mercury - halogen lamps, 12B187
 in tears, by a.a.s., 2D15
 in tellurium, by n.a.a., 1B103
 in tomatoes, sweet corn, beef and instant oatmeal product, by ion chromatography, 5F2
 in triuranium octoxide, by a.a.s., 4B97
 in urine, after collection on filter-paper, 6D22
 by potentiometry, 9D13
 sample stability in, 6D29
 in vegetables, by n.a.a., 6F60
 in water, electrode for, 6J175
 in wine, by flame photometry and a.a.s., 12F36
 in zeolites, by γ -ray emission spectrometry, 3B111
 detmn. of alkali and alkaline-earth metals in, by a.e.s., 3B25
 detmn. of intra-cellular levels of, electrode for, 2D14
 detmn. of ionic, in blood, integrated-circuit sensor in, 8D18
 detmn. of trace silicon in, spectrophotometric, 12B35
 extraction of, crown ether derivatives of ferrocene in, 9B14
 in presence of non-ionic surfactant, 7B23
 ion-exchange behaviour of, with crown ether - tungstophosphoric acid ppt., 11B20
 sepn. of, from lithium and potassium, by cation exchange in electric field, 8B22
 solvent extraction of, with derivatives of dibenzo-18-crown-6, 7B24
 storage of urinary, on filter-paper, 6D21
Sodium aluminomethylsilicate, detmn. of, in water or soil repellents, by complexometry - absorptiometry, 2C65
Sodium azide, detmn. of, by t.l.c., 9B16
Sodium bicarbonate, detmn. of, in anticid preparations, titrimetric, 2E52
Sodium bromide, detmn. of moisture in, gas-dynamic, 11E2
Sodium carbonate, detmn. of, by t.l.c., 9B16
 in aerosols, by lidar spectrometry, 10H2
Sodium chloride, detection of, in aerosols, 6H17
 detmn. of, by t.l.c., 9B16
 in butter, cryoscopic, 6F54

Sodium chloride, detmn. of, in butter, —continued

- on-line sensors in, 10F47
 in cheese, comparison of methods for, 5F31
 in pharmaceutical preparations, 11E32
 in potato crisps, by titrimetry, a.a.s. and direct-coupled plasma-emission spectrometry, 7F74
 detmn. of antimony in reagent-grade, by differential pulse anodic-stripping voltammetry, 9B107
 detmn. of cadmium in, by a.a.s., 2J76
 detmn. of chlorine in, by n.a.a., 4J155
 detmn. of fluoride in, by ion exchange - direct potentiometry, 9B20
 detmn. of iodide in, by spectrophotometric titration, 5B209
 detmn. of iron in, extraction - fluorimetric, 3B88
 detmn. of magnesium in, by titrimetry, 4B34
 detmn. of manganese in, by extraction - a.a.s., 8H72
 detmn. of nitrate and nitrite in table salt, by spectrophotometry, 7F77
 detmn. of scandium in, by fluorimetry, 4B78
 detmn. of silicon in, by spectrophotometry, 8B78
 detmn. of trace metals in, by resin concentration - ICP spectrometry, 8B11
 detmn. of zinc in, extraction - spectrophotometric, 11B34
Sodium cromoglycate, detmn. of, in urine, by h.p.l.c., 8D80
Sodium dichromate, analysis of, by X-ray photoelectron spectrometry, 5B199
Sodium hydride, detmn. of, in sodium reactor coolant, by X-ray diffraction, 8B24
Sodium hydroxide, detmn. of, by t.l.c., 9B16
 in sodium reactor coolant, by X-ray diffraction, 8B24
 detmn. of carbonate in aq., Total Organic Carbon analyser in, 4B35
 detmn. of chloride in, by ion chromatography, 1B109
 detmn. of free, in viscose, titrimetric, 11C72
 detmn. of sulphate in soln. of, flow-injection, 8B23
Sodium nitrate, detmn. of cadmium in, masking agent for spectrophotometric, 2B28
Sodium nitroprusside, detmn. of, by polarography, 8E69
Sodium oxide, detmn. of, in sodium reactor coolant, by X-ray diffraction, 8B24
 in solid waterglass, by XRF, 1B70
Sodium perchlorate, detmn. of, by t.l.c., 9B16
Sodium sulphate, detection of, in aerosols, 6H17
 detmn. of, in anionic surfactants, by h.p.l.c., 9C70
 in pharmaceutical preparations, 11E32
Sodium tetrahydroborate, detmn. of, in petroleum, by g.l.c., 4C84
 measurement of specific activity of triolein-labelled, by reduction of NAD^+ , 8B41
Sodium thiosulphate, detmn. of, graphite electrode in kinetic - catalytic, 8B94
Soil, analysis of, by d.c. plasma emission spectrometry, 7G12
 by gel-permeation chromatography and colorimetry, 12G3
 instrumental, 7G39B
 analysis of hazardous waste in, by g.c. - FT i.r., 10H91
 assay of thioglucosidase in, by colorimetric detmn. of allyl isothiocyanate, 6G13
 detection of malathion in, spot test for, 3H69
 detmn. of alumina and silica in, by cyclic n.a.a., 11B157
 detmn. of aluminium, calcium and magnesium in, 9G7
 iron, manganese and zinc in, 5G10
 detmn. of aluminium in, photometric, 12H58
 xylenol orange in colorimetric, 2B31
 detmn. of americium, curium, plutonium and thorium in, 1H28
 detmn. of americium and plutonium in, by X-ray and gamma-ray spectrometry, 11G14
 detmn. of americium in, by non-destructive photon counting, 6G9
 detmn. of ammonium ion in, by Kjeldahl analysis, 5G13
 salicylate in spectrophotometric, 6G12
 detmn. of ammonium-nitrogen in potassium chloride extracts of, colorimetric, 8G5
 detmn. of anions in, by h.p.l.c., 10G9
 detmn. of arsenic, cadmium and zinc in, by emission spectrography, 7B47
 detmn. of arsenic compounds in, 6D47
 detmn. of arsenic in, by a.a.s., 2B60, 3G5
 by differential pulse polarography, 8G6
 by XRF, 6B114
 detmn. of arylamide pesticides in, 11H71
 detmn. of asulam and sulphanilamide in, by t.l.c., 2G20
 detmn. of asulam in, by fluorimetry, 5G36
 by isotachopheresis and liquid chromatography, 10G20
 detmn. of available copper and zinc in, extractants for, 7G14
 detmn. of bendiocarb in, by differential pulse polarography, 10G26
 by g.l.c., 9G25
 detmn. of boron, phosphorus and sulphur in, by ICP a.e.s., 10D17
 detmn. of butoxycarbonyl in, by h.p.l.c., 4G39
 detmn. of butonate and its metabolites in, by g.c., 7G34
 detmn. of calcium and magnesium in, by spectrophotometry, 3G6, 4G13
 detmn. of calcium carbonate in, vacuum - gasometric, 7H35
 detmn. of carbafuran and its 3-hydroxy-metabolite in, by t.l.c., 12G16
 detmn. of carbafuran in, by g.c., 9H79
 detmn. of carbon and its radioisotope in, wet-combustion method for, 8D27

Soil—continued

- detmn. of carbonate, sulphate, pyrite and organic material in, by thermal analysis, 1B154
 detmn. of carbon-14 in air of, by liquid scintillation counting, sampling tubes for, 1G5
 detmn. of 6-chloropicolinic acid in, by t.l.c., 7H6
 detmn. of chlortoluron and metoxuron in, by g.c., 3G17
 detmn. of cobalt in, spectrophotometric, 9B152
 detmn. of copper in, by polarography, 4B114
 by spectrophotometry, 4G11
 detmn. of cyhexatin and its metabolites in, by t.l.c., 6H4
 detmn. of 2,4-D and its salts in, by t.l.c., 8G13
 detmn. of dicloran in, by t.l.c. or g.c., 8H88
 detmn. of 2,4-D in, by g.l.c. with ion-mobility detector, 6G28
 detmn. of EDTA and fulvic acid in, by size-exclusion chromatography with electrochemical detection, 11C13
 detmn. of ferbam and its degradation products in, by h.p.l.c., 10G22
 detmn. of fluoride in, 1H35
 ion-selective electrode in, 4G10
 detmn. of heavy metals in, as pollution indicator, 12G2
 detmn. of heavy metals in sewage-sludge-treated, review, 10H90
 detmn. of hexazinone in, by h.p.l.c., 5G35
 detmn. of indol-3-lactic acid and related compounds in, by h.p.l.c., 7G24
 detmn. of inorganic nitrogen in, manual colorimetric, 5G14
 detmn. of lead and cadmium in, by a.a.s. after extraction, 5G11
 detmn. of long-lived radionuclides in, 5H2
 detmn. of magnesium, phosphorus and potassium in, extractants for, 11G11
 detmn. of MCPA in, by g.c. and m.s., 5G31
 detmn. of mercury, selenium and arsenic in, by a.f.s., 4G14
 detmn. of mercury in, by fluorimetry, 8H13
 detmn. of metals in, by XRF, correction of, 4J92
 detmn. of metals in ordinary and sewage-sludge-treated, by a.a.s., 5G9
 detmn. of molybdenum in, by spectrography, effect of zirconium on, 5B202
 by spectrophotometry, 2H66
 detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
 detmn. of neodymium and scandium in, by graphite-furnace a.a.s., 6G10
 detmn. of nickel in, by spectrophotometry, 1B132
 detmn. of nitrate and nitrite in, by spectrophotometry, 6H68, 7H45
 detmn. of nitrate and nitrogen isotopic values of, effect of sample-to-extractant ratio on, 11G15
 detmn. of nitrate in, by spectrophotometry, 7H46
 detmn. of nitrite in, spectrophotometric, 11H43
 detmn. of nitrogen in, by Kjeldahl method, effect of pre-treatment with water on, 6G8
 detmn. of organic carbon in, extractants for, 11G12
 detmn. of organic pollutants in, avoidance of errors in, 7G15
 detmn. of organochlorine pesticides in, by g.c. - m.s., 8G11
 detmn. of oryzalin in, by derivatization - g.l.c., 10G19
 detmn. of PCB and organochlorine pesticides in, by capillary-column g.c., 11G36
 detmn. of phenols in, by h.p.l.c., 9G9
 detmn. of phenylmercury compounds in, by g.c., 11G33
 detmn. of phenyl phosphorodiamidate in, by colorimetry, 5G12
 detmn. of phosphate and metals in, automation and computerization of, 10G10
 detmn. of phthalate plasticizer residues in, by g.l.c., 6H93
 detmn. of phthalic acid in, by h.p.l.c., 6G7
 detmn. of picloram in, by h.p.l.c., 11G13
 detmn. of plutonium-241 in, by liquid scintillation spectrometry, 5H88
 detmn. of potassium in, 6G11
 detmn. of propiconazole and eteconazole in, by g.c., 1G13
 detmn. of pyrethroid residues in, by g.l.c., 5G41
 detmn. of radium-228 in, by measurement of Cerenkov radiation of actinium-228, 6B58
 detmn. of radon in air in, by absorption in scintillation fluid, 5G15
 detmn. of rare-earth metals in, *m*-bromoarsenazo in spectrophotometric, 12B64
 detmn. of resmethrin in, by t.l.c. - spectrophotometry, 2H4
 detmn. of silicon in, by 14-MeV n.a.a., 7B145
 spectrophotometric, 11G10
 detmn. of sulphur compounds in, by spectrophotometry oxidation, or reduction techniques for, 4H48
 detmn. of tetrathionin in, by h.p.l.c., 11G30
 detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.c. - m.s., 11G8
 detmn. of tetrahydrothiophene in, by head-space g.c. - m.s., 12H90
 detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60
 by flameless a.a.s., 4G12
 detmn. of thiocyclam in, by t.l.c., 2H63
 detmn. of tin in, by oscillography, 7G16
 detmn. of titanium in, by spectrophotometry, 7B82
 detmn. of toxic trace metals in, by photon activation, 12G4
 detmn. of trace elements in, after decomposition by nitric acid, hydrogen peroxide and u.v. irradiation, 5D14
 detmn. of trace metals in, by a.a.s., 1B151
 a.e.s. and n.a.a., 11D22
 detmn. of unreacted lime in mixtures of lime with, titrimetric, 10G13

Soil—continued

- extraction of pesticides from, by steam-distillation, 10G18
 extraction of trace metals from, effect of extractant pH on, 12H48
 identn. of PAH and PCB in, 4H71
 measurement of COD in, 4H83
 measurement of pH of, flat-surface combination electrode for, 11G9
 flow-injection system for, 3G4
 measurement of pH value of, by spectrophotometry, 6G6
 particle size analysis of, dry- and wet-sifting for, 9G8
 recovery of phenols from, steam-distillation method for, 7G13
 sepn. of pyrethrin enantiomers in, by h.p.l.c., 3G22
Soil acidifiers, detmn. of aluminium in, by a.a.s., 2G7
Soil repellents, detmn. of sodium aluminomethylsilicate and zirconium chloride oxide in, by complexometry - absorptiometry, 2C65
 α -Solamargine, detmn. of, in *Solanum ptycanthum* berries, by h.p.l.c., 6E11
 β -Solamargine, detmn. of, in *Solanum ptycanthum* berries, by h.p.l.c., 6E11
Solanidine, detmn. of, in plasma, by r.i.a., 6D143
 α -Solanine, detmn. of, in *Solanum ptycanthum* berries, by h.p.l.c., 6E11
Solanum ptycanthum, detmn. of glycoalkaloids of, by h.p.l.c., 6E11
 α -Solasonine, detmn. of, in *Solanum ptycanthum* berries, by h.p.l.c., 6E11
Solders, detmn. of gallium in, by spectrophotometry, 5B244
 detmn. of nickel in, spectrophotometric, 12B151
Solids, analysis of, spectrometric *in situ*, 7A1
 detmn. of hydrogen in, calculation of atmospheric humidity in, 4B30
Solvent extraction, device for, 2I2
 device for separation of phases in, 4J5
 of ion pairs, selectivity in, 6J10
 of metal ions, rate-controlled, 6B28
 ternary solvent system for, 12J7
Solvents, detmn. of chloride in chlorinated organic, by ion chromatography, 7J46
 protic, detmn. of hydrogen/deuterium ratio in, by cobalt-59 n.m.r., 5B30
 —, **organic**, detmn. of, in air, by g.c., 7J56
 with sorption tubes, 5H7
 in industrial wastes, by g.c., 3H78
 in mixtures, by i.r. spectrophotometry, 4J136
 detmn. of water in, by potentiometric flow-injection Karl Fischer method, 10C6
 recovery of used, distillation system for, 12J6
 sampling of, in air, 1H17
Somatostatin, detmn. of, in plasma, by r.i.a., 5D194, 6D231
Soot, detmn. of nitro-substituted PAH in diesel, by h.p.l.c. on micro-bore columns, 4H42
 detmn. of PAH in, by m.s., 6H34
 detmn. of polychlorinated dibenzo-*p*-dioxins in, by g.c. - m.s., 12C38
 detmn. of trace thallium in, ion-selective electrode for, 12J158
 extraction of PAH from diesel, 6C41
Sorbic acid, analysis of, by g.l.c., 4C20
 detmn. of, in beverages and soy sauce, by h.p.l.c., 8F10
 in delicatessen salads and mayonnaise, by h.p.l.c., 9F16
 in food, by h.p.l.c., 5F9
 by t.l.c., 11F10
 in fruit juices and soft drinks, by g.l.c., 8F54
 in yogurt, by h.p.l.c., 10F48
Sorbitan monolaurate, detmn. of, in plasma, by g.l.c., 3D80
Sorbose, identn. of sugars in, by g.c. - m.s., 3C10
Sorghum, detmn. of fructose, glucose and sucrose in, by h.p.l.c., 4D147
 detmn. of moisture in, microwave oven in, 6G1
 detmn. of potassium in, by dil. acid extraction and a.a.s., 9G3
Soup, detmn. of amines in, by h.p.l.c., 7F14
 detmn. of creatine and creatinine in, centrifugal analyser in, 4F8
 detmn. of L-glutamic acid in powdered, enzymic, 7F80
 detmn. of heavy metals in stored canned, 8F47
Soya-bean flour, detmn. of metals in, by a.a.s., 8F20
 detmn. of phenols in, by multiple solvent extraction and g.l.c., 8G2
Soya-bean oil, analysis of triglycerides of, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
 detmn. of fatty acids in, by g.l.c., 3F33
 detmn. of polar compounds in, IUPAC method for, 10F73
 detmn. of triglycerides in, by h.p.l.c. - m.s., 4F75
 by reversed-phase h.p.l.c. - m.s., 9F54
 photo-degradation of, head-space g.c. study of, 8F68
 sepn. of fatty acids in, by g.l.c. and h.p.l.c., 3F32
Soya beans, detmn. of, in mixtures with meat, by h.p.l.c., 7F43
 detmn. of moisture in, microwave oven in, 6G1
 detmn. of oil in, by wide-line n.m.r. spectrometry, 6F81
 detmn. of phosphine in, by g.l.c., 2G29
 detmn. of protein of, in meat products, by ELISA, a.a.s. plate reader for, 4F31
 detmn. of proteins of, in meat products, spectrophotometric, 10F29
 detmn. of pyrethroid insecticides in, by g.l.c. - e.c.d., 7G37
 sepn. of proteins in, by electrophoresis, 4D240
Soy sauce, detmn. of amines in, by h.p.l.c., 7F14
 by t.l.c., 7F79
 detmn. of benzoic acid and sorbic acid in, by t.l.c., 11F10
 detmn. of benzoic and sorbic acids and saccharin in, by h.p.l.c., 8F10
 detmn. of L-glutamate in, enzymic - spectrophotometric, 10F17

Soy sauce—continued

- detmn. of 4-hydroxybenzoic acid in, by h.p.l.c., 3F21
- Sparsomycin**, detmn. of, in plasma and urine, by h.p.l.c., 2D58
- Spectrofluorimetry, gamma-ray nuclear resonance**, in detmn. of pyrite in coal, 6B176
- ionization detector for, 6J157
- Spectrography**, arc excitation in, review, 5J96
- automatic device for plate development in, 5J95
- calibration graphs in, equations for, 2J79
- calibration of photographic plates in, 4J121
- computer program for data processing in, 2A14
- data processing in, non-programmable calculator for, 7A17
- in analysis of alloys, computer-controlled direct-reading instruments for, 12B147
- in multi-element analysis, review, 5J97
- interference in, 2J80
- of powdered materials, uniformity of sample in, 4J120
- plotting of blackening curves in, 11A25
- , **atomic-emission**, X-ray film for, 4J118
- Spectrometry**, adaptive smoothing of spectral data in, 8A17
- automated apparatus for, 11J68
- characterization of signal-to-noise ratio in atomic and molecular, review, 8J69
- computer control of stepper-motors in instruments for, 8J13
- computerized allocation of tasks in, 8A21
- correction for errors in, 3J70
- data processing in, 9A33
- deconvolution of pulse-height spectra in, real-time, 9A32
- digital smoothing filter for, 3A14
- flame, dual-laser-enhanced, electrical interference in, 1J68
- uniform droplet generator system for, 1J67
- FT, deconvolution, derivation and smoothing of spectra from, 11J69
- gas-phase molecular, lasers in, review, 7J74
- in detmn. of atoms and radicals, in gases, 4B4
- in *in situ* micro-analysis, nomenclature for, 7A1
- in surface analysis, 12B5
- in USSR, development of, 11J67
- kinetic, in analytical chemistry, 4J86
- laser photo-ionization, in detmn. of trace elements, 11B4
- numerical smoothing and differentiation of data from, convolution method for, 6A15
- particle-induced prompt photon, 5J70
- pico-second, 4J99
- plasma, formation of dry aerosols of serum in, nebulizer for, 12D4
- pulsed absorption, instrument for, 4J104
- supersonic-jet, review, 8J82
- , **absorption, heavy-ion**, in measurement of thickness and density of thin samples, 10J117
- , **alpha-particle**, detectors in, geometrical counting efficiency of, computerized calculation of, 6J165
- , **atomic**, bibliography of, January-June 1983, 2J70
- development of, review, 6J127
- electrothermal atomization in, review, 8J83
- in analytical chemistry, 7J116B
- in environmental analysis, 6H1
- separate volatilization and excitation in, review, 6J128
- trace-element speciation and direct analysis of solids by, review, 6J129
- , **atomic-emission**, atmospheric-pressure active-nitrogen after-glow in, 10B18
- bibliography of, 9J84
- data evaluation in, general internal reference method for, 9A30, 9A31
- d.c. plasma, review, 8J90
- detmn. of metals by rapid-scanning, microlitre samples in, 5J104
- electrothermal, hollow-cathode discharge system for, 9J101
- excitation source for, 11J89
- flame, branched capillaries in nebulizer feed line in, 12J89
- furnace non-thermal excitation in, 6J135
- graphite furnace for, 4B7
- hollow-cathode emission sources for, review, 7J86
- hydride generator for, 5J89
- ICP, adjustable cross-flow nebulizer for, 12J92
- amplitude-modulated power supply for, 6J137
- application near detection limit of, 5J105
- automated, in waste-gas analysis and occupational hygiene, review, 9H12
- computer-controlled technique for, 2J81
- concentric and cross-flow nebulizer efficiency in, 11J94
- concentric nebulizer for, 10J96
- continuous hydride generation in, 1J72
- continuous operation in, with switching between hydride-generation and conventional modes, 5J102
- correction for nebulizer memory effects in, 1J71
- detection systems for, in multi-element analysis, 10J98
- development of, review, 12J76
- direct injection of powders in, device for, 12J99
- effect of temp. on signal intensities in, 4J126
- electrothermal carbon cup vaporization method for, 6J138
- establishment of internal reference point in, 12J97
- flow-through hydride-generation system for, 6B98
- for multi-element analysis, 1J73

Spectrometry, atomic-emission, ICP,—continued

- handbook for, 5J138B
- "hard" emission lines as operating parameters in, 6J139
- h.f., at atmospheric pressure, 11J95
- h.f. generator with argon plasma in, 4J124
- high-resolution instrument system for, 4J127
- in analysis of ores, alloys and slag, automated fusion apparatus for, 6J18
- in clinical analysis, 1D17
- in detmn. of lithium, sodium and potassium, interference by other alkali metals in, 6B35
- in multi-element analysis, instruments for, 10J97
- internal standards for, 5B4
- internal standardization for improved performance in, 4J122
- internal standards for, 9A14
- low-gas-flow torch for, 10J95
- low-power, low-gas-flow argon - nitrogen plasma in, 3J81
- matrix line interferences in, 11B93
- of dry aerosols, nebulizer for, 12D5
- optical quartz fibre as coupling device in, 5J106
- peak searching in, 12J100
- plasma torches for, review, 6J140
- pre-concentration of trace metals for, by wall-jet electrochemical cell, 5J101
- prevention of fluctuation of signal noise and spray-chamber pressure in, 11J93
- programmable monochromator system for, digital computer and interface in, 5J99
- quality assurance in multi-element, 8J92
- reduction of electronic noise in, 1J70
- release of analytes into centre of plasma in, 12J96
- review, 2J82, 5J103
- sample introduction in, 1J69, 2J84, 5J100
- configuration of graphite cups for direct, 9J102
- review, 2J83
- system for, 4J123
- sample vaporization in, 9J103
- sequential instruments for, 12J98
- simultaneous/sequential instrument for, 5J98
- water-cooled torch for, 4J125, 12J101
- with graphite furnace, optimization of multi-element analysis by, 8J91
- ICP and d.c. argon arc, statistical comparison of, in detmn. of silica and alumina in silicates, 11B73
- laser-induced stepwise excitation in, 2J72
- line widths of metals in, 9B10
- metastable transfer, review, 11J97
- microwave-induced plasma, micro-sampling tungsten-boat vaporization in, 9J104
- multi-channel direct-reading, improved detection system for ARL 33000 Analyser, 12J95
- nebulizers for, prediction of characteristics for concentric, 12J88
- plasma, hydride generation in, review, 7J79
- review, 12J85
- sample introduction in, carbon furnace for, 6J134
- source for, atmospheric-pressure nitrogen as, 5J94
- sources for, three-filament and toroidal microwave-induced plasma, 11J92
- volatilization in, optimization of, 5D37
- with photographic recording, optimization of, 10J94
- , —, **photo-ionization**, of trace elements, 4J128
- , **attenuated-total-reflectance**, in detmn. of water in petroleum products, instrument for, 2C40
- , **Auger electron**, in micro-electronics industry, review, 3J86
- in surface analysis, review, 11J109
- , **diffraction, neutron**, multi-microprocessor interface system for, 8J114
- , **electron-energy-loss**, 10A4B
- in micro-analysis, review, 8J108
- , **electron-tunnelling**, circuit or, 5J126
- , **emission**, a.c. arc in, optimum burning period for, 11J90
- computerized densitometry in, 9J100
- detection by plasma, in h.p.l.c., review, 9J29
- electrothermal-atomization metastable-transfer, interference in, 3J80
- glow discharge, continuous-flow sample introduction system for, 2J78
- helium direct-current discharge tube method in, wire-loop microfurnace - power supply controller for, 12J94
- history and development of, review, 9J99
- hollow-cathode and glow-discharge sources for, 5B237
- hollow-cathode discharge tube for, 5B235, 5B236
- hollow-cathode lamp in, signal-to-background ratio of, 11J91
- ICP, modified nebulizer for, 7J87
- instruments for, reduction of r.f. interference in, 5J66
- lidar, in analysis of aerosols, 10H2
- low-wattage glow-discharge, in surface analysis of binary alloys, 12B44
- microwave-induced-plasma, interface for g.c. with, 5J60
- with g.c., review, 8J66
- molecular, inversion flame in, burner for, 10J99
- multi-element, internal standards for, 7A19
- optical, planar cathodes in surface analysis of steel by, 10B151
- phase analysis of steel by plasma-source, after electrochemical sepn., 5B230

Spectrometry, emission,—continued

- photo-, from solids, review, 1J57
- photographic and photoelectric recording in, 4J119
- photographic recording in, attachment for, 6J136
- data processing by programmable calculator in, 10A20
- single-electrode atmospheric-pressure microwave discharge system in, 1J196
- universal instrument for, 8J84
- , —, **infra-red**, advances in, 1J95B
- evaluation of correction factors in, 4J139
- ICP - FT, instrument for, 12C5
- , —, **X-ray**, analysis of biological tissues by, α -particle beams in, 12D15
- charged-particle-induced, reduction of background in, clean carbon backings for, 7J77
- coincidence techniques in, 5J73
- correction for inter-element and matrix effects in, 7A18
- in examination of multi-layer samples, 4J95
- micro-probe, of thin layers, 4J96
- , —, —, **proton-induced**, effect of target binder and backing in, 9B180
- in analysis of radionuclide sources, 5J137
- in analysis of thick samples, correction for heavy-matrix effects in, 9J77
- in trace analysis, 1J184
- isotope-source implantation in, 9J80
- review, 4J97
- sensitivity limits in, 12J83
- thick-target, calculation of uncertainties in, 5J77
- computer program for, 12A15
- parameter dependence of X-ray yields and calibration standards in, 9J78
- surface effects in, 9J79
- , **gamma-ray**, automated background-correction procedure for, 9A37
- cascade-summing corrections for, 5J151
- γ - γ coincidence, instrument for, applications of, 2J106
- coincidence-summing corrections for, 5J152
- Compton suppression, calculation of instrumental dimensions in, 5J154
- computer program for evaluation of, 2A20
- detection in, by current-pulse-height analysis, 6J169
- detectors for, calibration of, 2J105
- efficiency of, computer program for calculation of, 2J107
- thick mercuric iodide as, 6J168
- estimation of background in, computer program for, 8A25
- instruments for, 6J166
- measurement of peak areas in, by lithium-drifted germanium detectors, 2J104
- microprocessor-controlled output system for, 9J122
- multi-purpose multiple-detector system for, 8J117
- on-line deconvolution method for, 8A26
- sample-changing wheel for minimization of errors due to counting geometry in, 5J149
- sector sources for, 5J150
- semiconductor detectors coupled to pulsed optical-feedback pre-amplifiers in, counting losses in, 5J153
- semiconductor detectors in, computer analysis of complex spectra from, 5A39
- simultaneous fitting of peak and background function in, 8A24
- solid-state detector for, 5J142
- , **gamma-ray absorption**, in non-destructive analysis, particle-size effects in, 5J69
- , **glow-discharge**, in surface analysis, 8J93
- , **high-energy-ion recoil**, in detmn. of light elements, 12B58
- , **infra-red**, computer program for interpretation of spectra from, 9A23
- computer program for structure analysis by, 4C3
- data processing in, by fast Fourier transformation, 2A19
- FT, review, 12J110
- sampling in, review, 1J104
- time-resolved, 1J105
- in analysis of air, laser instrument for, 12H18
- potassium bromide and Nujol mull methods in, 6C14
- regression analysis of data from, colour graphics display for, 12J111
- , **ion cyclotron resonance**, FT, review, 8J113
- , **ionization**, laser-induced, d.c. detector for, 12D216
- , **ionizing-radiation**, counting losses and pulse pile-up rejection in, correction for, 10J124
- , **ion-mobility**, ceramic electrodes for, 5J136
- membrane inlet for, 3J95
- , **laser**, 4J154B
- , **laser-enhanced-ionization**, detmn. of trace metals by, review, 4D23
- signal detection in, point charge model for, 10J91
- total-consumption burner for, 4J117
- , **laser ionization**, in trace analysis, review, 12B9
- resonance-enhanced two-photon, in plasma chromatography, 7J94
- , **magneto-optic rotation**, detection of atomic species by, Voigt effect in, 4J89
- , **microwave**, instrument for detection of gaseous pollutants in air by, 9H5
- , **molecular-emission**, atmospheric-pressure active-nitrogen after-glow in, 10B18
- , **optoacoustic**, 9A7B
- analysis of liquids and solids by, review, 5J117

Spectrometry, optoacoustic,—continued

- applications of, review, 6J155
- detectors for *in situ*, 3J73
- detectors for, in detmn. of hydrocarbons, 7C12
- devices for and applications of, review, 5J118
- double-beam instrument for, 2J88
- FT, in analysis of films on electrodes, 8J119
- measurement of absolute fluorescence quantum yields of dyes by, 4C76
- pulsed, in oxidation-state-specific detmn. of actinoids, 10B69
- review, 10J106, 1J106
- sources for, 1B86
- total-internal-reflectance, for gas analysis, 6J154
- u.v. - visible - near-i.r. spectrophotometer for, 6J153
- , —, **infra-red**, F-centre laser as source in analysis of liquids by, 8J103
- , **optogalvanic**, analysis by, review, 10J110
- , **photo-ionization**, laser resonant, trace analysis by, 4J141
- , **photon-correlation**, in particle-size analysis, 8J134
- , **photothermal**, review, 1J106
- , **reflectance**, instruments for, in clinical analysis with dry film slides, 12J108
- , —, **near-infra-red**, applications of, review, 5J116
- , **resonance fluorescence**, detectors for, 2J85
- , **resonance ionization**, in detmn. of single atoms, 10B9
- , **scattering**, in thin-film and surface analysis, review, 9J66
- time-of-flight elastic recoil detection in, 12J132
- , —, **forward coherent**, review, 8J100
- , —, **heavy-ion**, time-of-flight detection in, 12J129
- , —, **ion**, in surface analysis, 5J121
- computer-aided, review, 11A26
- sensitivity factors for, 9J117
- time-of-flight detection in, 12J133
- with helium ions, in metallurgy, 12J131
- , —, **Rutherford**, absolute standards for, 12J134
- computerized spectral analysis in, 12A16
- depth profiling by, effects of surface irregularities on, 12J142
- enhanced mass and depth resolution in, 1J93
- in air, 12J128
- in analysis of catalysts, 9B185
- in analysis of radionuclide sources, 5J137
- measurement of glancing angle in, 12J130
- sensitivity and applications of, 1J94
- , **thermal-lens**, convective effects in, 5J83
- single- and dual-beam configurations in, 3J71
- , **X-ray**, characterization of spectra in, from attenuation data, 8J75
- correction for stopping power in multi-component analysis by, 11J72
- design of experiments in, 9J69
- energy-dispersive, dead-time correction of low-energy spectrum in, 11J82
- radiative Auger transitions in deconvolution of spectra from, 11J74
- energy resolution of mercuric iodide instruments for, review, 6J114
- instruments for, calibration of, 9J70
- ion excitation in, 12J79
- normalization procedure in, 8A20
- proportional counters for, ternary gas mixtures for, 10J125
- solid-state detector for, 5J142
- solution of equations in, by Monte Carlo method, 8J74
- tube for, 4J90
- wavelength-dispersion, accuracy of detectors in, 2J69
- wavelength-dispersive micro-analysis by, in transmission electron microscope, 9J76
- , **X-ray absorption**, analysis of thin films by, 2J64
- quantitative mapping of atomic species by, 1J61
- , **X-ray diffraction**, study of crystalline solids by, 10B5
- , **X-ray fluorescence**, analysis by, databank for automation in, 8J76
- analysis of deposits on filters by, review, 9H11
- analysis of minerals by, portable analyser for, 1B152
- analysis of surfaces of metals by, 2J68
- applications of, review, 9J71
- automated, for analysis of grindable solids in energy industry, 1B4
- automated correction in, 2J66
- back-scattered radiation in correction of matrix effects in, 5J76
- calculation of relative intensities in, computer program for, 5A34
- calibration graphs for, in analysis of unsaturated layers, 11J75
- Compton scattering in, for detmn. of light elements, 8B116
- computerized correction in, review, 2J67
- correction for heterogeneity of matrix in, algorithm for, 10A19
- correction methods in, 8A18, 8A19
- correction of matrix effects in, 4J92
- coupled with X-ray photoelectron spectroscopy, 12J81
- detection limits in, validation of statistical criterion for, 8J80
- electron-opaque targets in, polarization of bremsstrahlung produced by, 5J74
- energy-dispersive, computer program for multi-element, 3A12
- of geological materials, detection modes in, 12B175
- semiconductor detectors in, 5J75
- with multiple total reflection of the exciting beam, instrument for, 2J65
- improved detection of impurities by, 10B7
- in analysis of liquids, precision of and sample cell for, 8J79
- in analysis of magnetic films, 9J75

Spectrometry, X-ray fluorescence,—continued

- in analytical chemistry, 11A6B
 - in detmn. of light elements, instrument for, 9J74
 - in energy-dispersive multi-element analysis, mobile installation for, 4J94
 - influence coeff. in, theoretical calculation of, 11J78
 - instruments for, 5J72
 - in scanning electron microscope, 7J76
 - measurement of dead time in, 8J78
 - in surface density measurement of pure-element thin films, 4J93
 - mathematical correction for matrix effects in, 8B115
 - noise reduction in, *B*-splines method for, 4A24
 - of "thin" and monolayer samples, correction of particle size effect in, 4J91
 - peak-to-background method in, quantitative analysis by, 8J77
 - portable unit for, 1C21
 - preparation of powdered material for, 11J76
 - review, 6J116
 - sensitivity limits in, 12J83
 - single-standard fundamental-parameter method in, 3A15
 - smoothing methods for iterative deconvolution of spectra from, 11A27
 - smoothing of spectra in, 9J73
 - sources of synchrotron radiation for, in elementary analysis, 11J79
 - statistical comparison of, in detmn. of silica and alumina in silicates, 11B73
 - tube-excited energy-dispersive, in environmental analysis, 11J77
 - ultra-soft, analysis of surfaces by, 12J80
 - with synchrotron radiation, 1J79
 - review, 1J78
 - X-ray flux-density and linear-polarization spectra in, 9J72
 - X-ray tubes in, 12J82
 - , **X-ray micro-probe analysis**, instrument for, design of, 1J81
 - , **X-ray scattering**, of soln., two-dimensional data from, 6J119
 - , **Zeeman**, instruments for, in identn. of toxic organic compounds, tunable, 2J71
- Spectrophotometry**, array, instruments for, computerized, 11J10
- automatic variable-time ratemeter for kinetic assays by, 6D13
 - data processing for, 2A17
 - derivative, in environmental analysis, 1H2
 - effect of unconsumed reagent in, 5J78, 5J79
 - estimation of signal-to-noise ratio in computerized processing of data from, 11A23
 - in analysis of multi-component mixtures, computer program for, 6A17
 - in detmn. of metals, reagents for, 2A2
 - in measurement of atmospheric transmittance, instrument for, 4J101
 - micro-, in plant analysis, 9A3B
 - multi-channel imaging instrument for, in scanning of t.l.c. plates, 5J81
 - multi-component analysis by, software for, 4J103
 - organic reagents in, 9J81
 - quantitative derivative evaluation of digitized spectra in, 5A35
 - solid-state emitter instrument for detmn. of phosphate by, 5J80
 - stray radiation from holographic gratings in instrument for, calculation of, 6J120
 - stray radiation from ruled gratings in instrument for, 6J121
 - transmittance standards for, 1J62
 - zeroth-, first- and second-derivative, in clinical analysis, 4J102
 - , **absorption**, combined with amperometry, computer control of, 3A18
 - data-handling systems in, 3A16
 - double-beam instrument for, 8J85
 - higher-order derivatives in, formula for selectivity of, 6A16
 - in analysis of binary mixtures with non-additive absorbances, 9A34
 - in analysis of multi-component systems, 8J86
 - in electrochemical analysis, thin-layer cell for, with demountable gold or mercury - gold electrodes, 1J63
 - instruments for, 10J81, 10J82
 - computer-controlled, 6J113
 - photometric stability of, neutral-density filters in measurement of, 5J82
 - instruments for measurements on small vol. in, 7J81
 - microprocessor-controlled instrument for u.v. - visible, data-handling capability of, 12J87
 - multi-component analysis by, 6J123
 - rapid-scanning photodiode-array system with drift compensation for, 7J80
 - simplified system for, 12J86
 - triple-wavelength, in detmn. of scandium and lanthanum, 6B80
 - tunable dye lasers with optoacoustic filters in, 10J79
 - wide-slit technique in, 4J100
 - , —, **infra-red**, analysis of multi-component gas mixtures by, 9A35
 - characterization of polyethylenes by, review, 8C81
 - compression procedure for computerized storage and retrieval of spectra in, 7J88
 - computer programs for vapour-phase spectra interpretation in, 9A22
 - computers in, review, 12J109
 - databank for, KISS, 8A16
 - data-handling systems in, 3A16
 - data-point manipulation in, expanded spectra from, 6A18
 - derivative diode laser, correction in, 8J6
 - detection in g.c. by FT, effects of light-pipe dimensions on sensitivity of, 8J63

Spectrophotometry absorption, infra-red,—continued

- difference, analysis of polymer mixtures by, 9C79
- file search system for, 2A16
- FT, apodization of interferograms in, 6J148
- applications of, review, 5J113
- characterization of industrial materials by, review, 8J101
- coupled with g.c., 5J48
 - review, 6J59
- coupled with g.c. and m.s., applications of, review, 5J19
- in art conservation, 3J83
- interference fringes in, 6J149
- trends in, 4J135
 - with g.c., performance of, 6J107
- in analysis of multi-component mixtures, computerized deconvolution of spectra for, 6J151
- in multi-component analysis, 4J136
- instrumentation and methods in near-, review, 11G17
- lasers in, for analysis of gases and liquids, 2J87
- long-path cell for, 8J102
- measurement of absorption coeff. of liquids by, 4A25
- multi-component analysis by, 4J137
- of vapours, reference spectra in, 5J115
- pattern recognition in, chemical classification by, 5A36
- principles, calibration, instrumentation and applications of, review, 10J104
- rapid analysis by, 6F72
- spectra from, searching of library of, 5J114
- spectrum-retrieval system for, 3A17
- table-driven procedure for interpretations of spectra from, 6J150
- , —, **ultra-violet**, cells for, thin quartz, 9J82
- data-handling systems in, 3A16
- deconvolution of multi-component spectra in, 10J84
- effects of stray light in, 10J83
- in detmn. of absolute atomic concn., by saturated-vapour total-absorption method, 3J78
- in target factor analysis of unresolved fractions from h.p.l.c., 5J33
- photodiode array in high-speed instrument for, 6J122
- tunable atomic-line molecular, in detmn. of benzene, 7J78
- , **atomic-absorption**, analysis of tanning materials by, errors in, 7C103
- applications of, review, 6B14
- atomizers for, 6B134
- automated photocoupled trigger for discrete atomization in, 1J64
- background correction in, 4D7, 10J86
 - single hollow-cathode lamp for, 6J125
- background correction method for, 5J90
- bibliography of, 9J84
- calibration method for, 7J83
- capacitatively coupled microwave plasma in, 3J75
- cathodic sputtering atomization apparatus for, 7B8
- characteristics of commercial lamps used in, 4J105
- computer interface for, 7J82
- continuum primary sources for, review, 10J85
- continuum-source, staircase modulation wave-form for extended calibration graphs in, 10J89
- data-processing system for, 2A18
- d.c. plasma as atomizer for, 4J109
- detmn. of arsenic and selenium by graphite-furnace, decontamination in, 2J75
- detmn. of trace elements in iron and steel by, review, 11B131
- dual-channel, applications of, review, 4J108
- electrothermal, atomizer for, 12J91
- portable instrument for ore analysis by, 12J93
- rapid-response recording system for, 4J107
- temp. programme with pyrometric feed-back for, 9J95
- elimination of flame interference and optimization of parameters in, 5J87
- empirical modelling of matrix effect in, 5A25
- extension of tube life in graphite-furnace, 4J115
- flame, accuracy of calibration in, 10J87
 - atomization in, 11J85
 - branched capillaries in nebulizer feed line in, 12J89
 - detection by magneto-optic rotation in, 9J98
 - flow-injection peak-width calibration in, 10J88
 - instrumentation for, 8J88
 - PTFE fittings in, for elimination of noise, 5J88
 - slotted-tube atom trap for, 6J131
- flameless, automated graphite-probe sample introduction in, 2J74
- Massmann and constant-temperature graphite furnaces in, 6J133
- optimization of atomization programmes in, 1J66
- oxygen-ashing attachment for, 4J111
- time-resolved spectra in, 5J93
- for detection in h.p.l.c. and g.l.c., review, 11J23
- graphite cells for, 10J90
- graphite-furnace, atomizer temp. profiles in, 9J96
- automated pyrolytic-graphite probe for, 9J93
- chemical reactions during elemental determination by, 11J86
- concentric-tube atomizer for, 9B11
- cooled tantalum insert for second-surface atomization in, 9J90
- English translation of L'vov's first paper on, 9J86
- extraction and pre-concentration of metals for, 10B11

- Spectrophotometry, absorption, infra-red, graphite-furnace, —continued**
 graphite-cloth ribbon in, 12B122
 in multi-element analysis, 9J94
 isothermal atomization from platform in, 2J77
 loss of atomic vapour in, 9J88
 matrix interference in, 1J188
 ordinary and pyrolytic graphite and tube-wall and platform vaporization in, in detmn. of lead, 10B86
 pyrolytic coating of graphite tubes for, 6J132
 reduction of diffusional atom loss and delay of volatilization in, 9J91
 relationship between heating rate and peak height in, 9J89
 review, 7J84, 9J85
 standardless, 9J92
 vitreous-carbon tube for, 9J97
 with stabilized-temperature platform, standardless, 8J89
 with tantalum boat, in detmn. of carbide-forming elements, 3J76
 graphite furnace for, three-bar tube in, 12J90
 graphite furnace in, effect of long-term use on, 4J116
 graphite-tube and tube-in-tube techniques for, 11J87
 hydride-generating system for, 5B169
 hydride generation in, review, 7J79
 hydride generator for, 5J89
 identn. of anionic composition by, 5B20
 identn. of interference in, by electrostatic pre-concentration, 5J84
 imposed variance in, 1J65
 improved hollow-cathode lamps for, 5J85
 in analysis of biological fluids, review, 6J130
 in detmn. of calcium, iron and magnesium, effect of alcohols on flame in, 8B36
 in environmental analysis, review, 8H1
 in flow-injection analysis, review, 2J6
 in multi-element analysis, optimization of electrothermal atomization in, 9B4
 introduction of powdered samples in, cup for, 4J110
 laser-induced stepwise excitation in, 2J72
 line widths of metals in, 9B10
 microcomputer-controlled system for graphite-furnace, 5J92
 micro-sampler for, 1J12
 nebulizers for, prediction of characteristics for concentric, 12J88
 non-resonance lines in, 9B93
 optimization of, by temp. control of atomizer, 4J106
 platform furnace in, 5J91
 review, 12J85
 sample introduction in, carbon furnace for, 6J134
 samplers for, automated, for pulsed atomization in, 3J74
 sample treatment and introduction system for, 4J112
 separative column atomizer for, g.c. characteristics of, 3J77
 signal integration in graphite-furnace, 4J113, 4J114
 simultaneous reading of analyte and background absorbance in, 2J76
 statistical comparison of, in detmn. of silica and alumina in silicates, 11B73
 surface coverage measurement with graphite-rod atomizer in, 9J87
 tantalum atomizer for, 2J73
 thermal-gradient lamp for, 6J126
 titanium burners for, cleaning of, 8J87
 Zeeman, graphite boat in direct, 5J86
 Zeeman-effect, extension of range of, 10J93
 Zeeman-effect background correction in, review, 7J85
- , **atomic-fluorescence**, atomizers for, tungsten spiral as, 10J102
 double-modulation, interferences in, 4J133
 hydride generation in, for detmn. of bismuth, 6B118
 review, 7J79
 ICP, detection limits in, 8J99
 development of, review, 12J76
 review, 8J98
 instruments for, in multi-element analysis, 6J145
 laser, in detection of rare isotopes after resonant-light-pressure deceleration, 11J101
 laser-excited, interference by non-selective scattered radiation in, review, 6J146
 laser-induced, resonance laser-enhanced photo-ionization detection of photons in, 4J134
 lasers for, low-cost tunable, 3J69
 manganese electrodeless discharge lamps for, 4J132
 tunable dye lasers with optoacoustic filters in, 10J79
- , **attenuated-total-reflectance**, measuring errors of integrating spheres in, 4J138
 —, **molecular-absorption**, optimization of, 10J92
 —, **multiple-internal-reflectance**, prism cell for, 6J152
 —, **reflectance, infra-red, FT**, in analysis of films on electrodes, 8J119
 —, **ultra-violet**, optimization of dual-mode Rowland mount instrument for, 4J98
 —, **X-ray absorption**, in analysis of liquid samples, 5J71
- Spermatozoa**, detmn. of phospholipids in, by h.p.l.c., 2D148
 detmn. of trace elements in, by a.a.s., 4D38
- Spermidine**, detmn. of, by h.p.l.c., 3D128, 7D153
 chloranil in spectrophotometric, 11D167
 in biological fluids and cell extracts, by ion-exchange chromatography with detection by fluorescence or with ninhydrin, 4D212
 in blood, by g.l.c., 6D202
- Spermidine**, detmn. of, —continued
 in serum and urine, by h.p.l.c., 6D203
 in urine, by capillary g.c., 12D160
 h.p.l.c. and enzymic, 9D171
 spectrophotometric, 12D161
- Spermine**, detmn. of, by h.p.l.c., 3D128, 7D153
 in biological fluids and cell extracts, by ion-exchange chromatography with detection by fluorescence or with ninhydrin, 4D212
 in blood, by g.l.c., 6D202
 in serum and urine, by h.p.l.c., 6D203
 in urine, by capillary g.c., 12D160
 spectrophotometric, 12D161
- Sphaerophrysine benzoate**, detmn. of, dinitrobindone in spectrophotometric, 8E71
- Sphagnorubin A**, detmn. of, in *Sphagnum* mosses, by t.l.c., 3D219
Sphagnorubin B, detmn. of, in *Sphagnum* mosses, by t.l.c., 3D219
Sphagnorubin C, detmn. of, in *Sphagnum* mosses, by t.l.c., 3D219
Sphagnum, detmn. of sphagnorubins in, by t.l.c., 3D219
- Sphingoid bases**, detmn. of, by h.p.l.c., biphenylcarbonyl chloride in, 6D176
- Sphingomyelin**, detmn. of, in amniotic fluid, by enzymic colorimetry, 2D147
 in serum and plasma, by t.l.c. - densitometry, 1D181
 detmn. of ratio of lecithin to, in amniotic fluid, effect of blood contamination on, 10D137
- Spices**, detmn. of amines in, by h.p.l.c., 7F14
 sepn. of stereoisomeric fatty acids of, by h.p.l.c., 4F61
- Spinach**, detection of oxalic acid and oxalates in, enzymic degradation in, 3F20
 detmn. of lead, cadmium and mercury in, by a.a.s., 12A8
 detmn. of phosphorus in, by a.a.s. and AutoAnalyzer methods, 12B108
 by α -particle activation analysis, 5D29
 detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14
- Spinels**, analysis of chromium, by XRF, 2B84
- , **aluminomagnesium**, analysis of, by XRF, 4B195
- Spiperone**, detmn. of, by anodic voltammetry at rotating platinum or gold electrodes, 8E60
- Spirolactone**, detmn. of, in pharmaceutical preparations, spectrophotometric, 12E61
 in tablets, spectrophotometric, 11E17
- Spirorenone**, detmn. of, in plasma, in presence of its metabolites, by h.p.l.c. and g.c. - m.s., 4D135
- Spleen**, assay of ribonuclease in, spectrophotometric, 12D244
 detmn. of ethioheptazine in, by g.l.c., 6D85
 detmn. of haematoporphyrin derivatives in, by fluorimetry, 2D59
 detmn. of thallium in, by a.a.s., 8D25
 isolation of phosphonolipids from goat, by t.l.c. - column chromatography, 4D173
- Squalene, perhydro-**, detmn. of, in sultan preparations, by h.p.l.c. and g.l.c., 1C31
- Squash (vegetable)**, detmn. of dehydroacetic acid in, by g.l.c., 2F36
- Stamps**, characterization of, by X-ray diffraction, 5C97
- Stannane, cyclohexylhydroxyoxo-**, detmn. of, in air, water, soil or plants, by t.l.c., 6H4
- Stanolone**, detmn. of, in blood serum, by h.p.l.c. - r.i.a., 4D191
- Starch**, analysis of, by near-i.r. reflectance spectrometry, 5J116
 analysis of hydrolysates of, by reversed-phase h.p.l.c., 8C77
 detmn. of, in baby food, by extraction - colorimetry, 12F12
 in plants, by pptn. - filtration, 4D151
 in tobacco, 1D79
 enzymic, 1D85
 detmn. of acetone in hydroxyethyl derivatives of, by g.l.c., 5E57
 detmn. of amylose in, by colorimetry, 4F19
 detmn. of carboxy-groups in oxidized, by iodimetric titration, 4F20
 detmn. of phosphorus in, by a.a.s., 3F12
 standard methods for, 8F19
 detmn. of potato, in inclusion complexes, 11F13
 detmn. of trace chlorophenols in, by g.c. - m.s., 8C32
 detmn. of zinc in, by spectrophotometry, 3H36
- Statistics**, accuracy, in chemical analysis, model for, 5A28
 analytical variance in, algorithm for minimization of, 2A11, 2A12
 assessment of inaccuracy in, 4A18
 chemometrics, in microchemical analysis, 7A11
 review, 7A12
 cluster analysis, in trace analysis of powdered metals and alloys, algorithm for, 7A10
 computer calculation of standard deviation, errors in, 7A13
 Deming's regression coeff. and imprecision in, 12A10
 detection and detmn. limits in, calculation of, computer programs for, 1A9
 detection limits, definition of, 12D62
 deviation-pattern recognition, in interpretation of electrochemical data, computerized, review, 11A28
 double-known-addition method in, for potentiometry with ion-selective electrode, 5A41
 errors, concn.-independent, 6A11
 in analytical results, 4A20, 4A21
 in detmn. of cyanide, 5B132
 estimation of imprecision in, 9A18
 evaluation and optimization of limit of determination in, 5A26

Statistics—continued

- for analytical chemists, 5A45B
- for long-term retrospective quality control of instruments, 8A13
- for m.s., 4A28
- for multi-component analysis, partial least-squares solutions for, 4A11
- for n.m.r., fast curve-fitting in, 4A26
- generalized standard-addition method, effect of random error on, 12A12
- imposed variance, in a.s.s., 1J65
- in analysis of steel, reliability of, 2A10
- in analytical chemistry, 2A13
- in biochemical analysis, for method comparison, 1A7
- in comparison of analytical methods, 10A12
- in detmn. of carbon, hydrogen and nitrogen in organic compounds, 11C3
- in detmn. of PCB in oils by g.c., model for, 1A10
- indices of variation in, 12A9
- in elimination of random and systematic errors in n.a.s., 12B118
- in environmental analysis, 4A12
- in evaluation of data obtained from standard additions, 5A27
- in evaluation of inter-laboratory tests, 12A8
- in instrumental analysis, precision-dependent calibration in, 4A13
- in optimization of flame a.s.s. detmn. of cobalt, chromium and copper, 11B16
- in presentation of analytical results, 8A11
- in processing of results of inter-laboratory tests, 11A18
- in spectrometry of silica and alumina in silicates, 11B73
- least squares analysis, by microcomputer, 1A8
- weighting factors for, computerized calculation of, 10A15
- linear and non-linear regression techniques, in calibration, 12A11
- linear inversion, in calculation of particle size distribution from measurements with differential mobility analyser, 11A31
- method-comparison analysis, errors in, 4A14
- of polynuclear acid-base and complex equilibria, graphical representation of, 4A19
- pattern recognition and chemometrics, in analysis, review, 9A21
- pattern recognition theory, 10A13
- profile deconvolution in, for small computers, 5A37
- random errors, in analytical measurements, 10A14
- simplex algorithm, in resolution of overlapping peaks in h.p.l.c., 11A24
- standard deviation, drift effects in calculation of, 3A11
- for two-dimensional analytical methods, calculation of, 2A15
- Students *t* test, calculation of probabilities in, 4A16
- Steam**, detmn. of trace impurities in, instrumentation for, 8H36
- Stearic acid**, extraction of, from aq. soln., impregnated XAD-2 resin for, 9C4
- , **9,10,12-trihydroxy-, methyl ester**, sepn. of diastereoisomers of, by h.p.l.c., 10C23
- Steel**, analysis of, by a.s.s., 1B123
 - by amperometry, 5B17
 - by cathodic sputtering atomization a.s.s., 7B8
 - by emission spectroscopy, standards for, 10B148
 - by emission spectrometry, depth profiling, 10B151
 - Grimm lamp in, 10B149
 - by glow-discharge optical spectrometry, 4B160
 - by ion micro-probe, 4B159
 - by microwave-coupled hollow-cathode discharge, 8B118
 - by optical emission spectrometry, effect of metallographic structure on, 10B146
 - by particle-induced prompt photon spectrometry, 5J70
 - by PIXE, calculation of uncertainties in, 5J77
 - by plasma emission spectrometry, 5B230
 - by X-ray diffractometry, 11A6B
 - by XRF, review, 6B155, 6B156
 - computer-controlled direct-reading spectrograph for, 12B147
 - controlled atmospheres for spectrographic, 1B127
 - glow-discharge spectrometry in surface, 8J93
 - Quantometer in, effect of oxide film on, 6B162
 - reliability of results in, 2A10
- analysis of inclusions in, by a.s.s., 3B93
- analysis of liquid, sampler for, 6B153
- detmn. of alloying elements and impurities in, by spectrography, comparison of hollow-cathode and glow-discharge sources for, 5B237
- detmn. of aluminium in, by graphite-furnace a.s.s., 7B124
 - by spectrophotometry, 6B66
 - 8-hydroxyquinoline-5-sulphonic acid and surfactant in fluorimetric, 12B54
- detmn. of aluminium nitride and silicon nitride in, 4B156
- detmn. of antimony in, by a.s.s., hydride generation in, 8B84
- detmn. of arsenic in, by anodic-stripping voltammetry, 5B171
 - by voltammetry, 10B145
- detmn. of austenite in, standard reference material for, 5A14
- detmn. of bismuth and lead in, by a.s.s., 1B130
- detmn. of boron in, by column chromatography - a.s.s., 1B125
 - by ICP a.s.s., 6B160, 11B40
 - by ion-pair chromatography, 7B51
 - by spectrophotometry, 1B128
 - by spectrophotometry or potentiometry, 6B161
 - spectrophotometric, 8B44
- detmn. of calcium and magnesium in, by a.s.s., 3B94

Steel—continued

- detmn. of carbides and alloying metals in, by spectrography, hollow-cathode discharge tube for, 5B235
- detmn. of carbides in, by X-ray spectrometry, 4B157
 - potentiometric, 11B141
- detmn. of carbon, nitrogen and oxygen in, by laser m.s., 12B21
- detmn. of carbon in, absolute calibration of coulometric, 11B139
 - by electron-probe micro-analysis, ZAF correction in, 7B128
 - by i.r. spectrophotometry, 11B133
 - combustion - gravimetric, 11B132
- detmn. of cerium in, spectrophotometric, 11B137
- detmn. of chromium and zinc in corrosion-resistant coatings on, by XRF, 5B233
- detmn. of chromium in, by a.s.s., 7B126
 - by potentiometric titration, 11B135
 - by spectrophotometry, 4B134, 4B135
- detmn. of cobalt in, by fluorimetry and spectrophotometry, 2B73
 - by ICP a.s.s., 1B122
 - by polarography, 4B166
 - by spectrophotometry, 1B129, 8B123
 - spectrophotometric, 6B165, 7B130, 8B124
- detmn. of copper and nickel in, photometric, 11B140
- sulphonated azo-dyes in spectrophotometric, 2B6
- detmn. of copper in, by spectrophotometry or fluorimetry, 4B40
 - spectrophotometric, 4B163
- detmn. of diffusible and total hydrogen in, 8B20
- detmn. of hydrogen, oxygen and nitrogen in, hot hollow cathode device in spectral-isotopic, 12B13
- detmn. of hydrogen in, by extraction in inert medium, 4B164
- detmn. of iron, chromium and nickel in, by XRF, correction for interference in, 12B149
- detmn. of iron in, by spectrophotometry, 5B215
 - extraction - spectrophotometric, 9B140
- detmn. of lead, bismuth, antimony and silver in, by a.s.s., 5B232
- detmn. of lead and bismuth in, by a.s.s., 8B121
- detmn. of lead in, by automated stripping chronopotentiometry, 9B94
- detmn. of molybdenum and tungsten in, by γ -activation, 3B96
 - by XRF, 1B105
- detmn. of molybdenum in, by polarography, reagent for, 6B132
 - by spectrophotometry, 6B133
 - extraction - spectrophotometric, 11B112
- detmn. of nickel in, by spectrophotometry, 1B132, 5B244
- cyclohexane-1,3-dione bishiosemicarbazone in spectrophotometric, 12B154
 - in presence of cobalt, by spectrophotometry, 5B247
 - spectrophotometric, 12B151
 - thiocamphor oxime in spectrophotometric, 12B153
- detmn. of niobium in, by potentiometry, 1B93
 - extraction - photometric, 6B158
 - spectrophotometric, 12B115
- detmn. of nitrogen in, 4B161
- detmn. of oxygen and aluminium in, by n.a.s., 3B95
- detmn. of oxygen in gases from manufacture of, with zirconia-based electrochemical cells, 9B149
- detmn. of oxygen in molten, solid-electrolyte probe in, 4B162
- detmn. of phosphate in, by catalytic d.c. polarography, 2B57
- detmn. of phosphorus, manganese and silicon in, 1B126
- detmn. of phosphorus and arsenic in, by spectrophotometry, 1B131
- detmn. of phosphorus in, by spectrophotometry, 4B165, 7B85, 11B134
- detmn. of rare-earth metals in, *p*-acetylarsenazo in spectrophotometric, 11B47
 - by spectrography, hollow-cathode discharge tube for, 5B236
 - spectrophotometric, 9B147
- detmn. of silicon, chromium and cobalt in, by proton-induced prompt-photon spectrometry, 7B127
- detmn. of silicon and arsenic in, by chlorination - m.s., 8B64
- detmn. of silver and copper in, extraction - spectrophotometric, 11B26
- detmn. of silver in, iodide and Rhodamine B in spectrophotometric, 9B145
- detmn. of sulphur in, by isotope-dilution m.s., 11B138
 - cadmium-selective electrode in indirect, 2B65
- detmn. of tantalum in, spectrophotometric, 11B136
- detmn. of tin in, by ICP a.s.s., 6B98
 - by spectrophotometry, 2B71
- detmn. of titanium in, by differential pulse polarography, 5B153
 - by spectrophotometry, 5B151, 5B152, 7B82
 - reagent for spectrophotometric, 6B159
 - salicylfluorone in spectrophotometric, 8B73
- detmn. of total unstable nitrides in, 3B98
- detmn. of trace elements in, by a.s.s., review, 11B131
 - by emission spectrometry, device for, 3B5
 - by ICP a.s.s., 10J97
- detmn. of trace tungsten in, spectrophotometric, 9B146
- detmn. of tungsten in, by polarography, 11B142
 - iodide-selective electrode in, 5B205
- detmn. of vanadium in, by pptn. and XRF, 9B148
 - by spectrophotometry, 1B89, 4B167, 5B179, 7B92
 - substituted diarylbenzamidines in, 2B64
 - in presence of thiocyanate, by spectrophotometry, 5B178
 - salicylhydroxamic acid and thiocyanate in, 7B91

- Steel**, detmn. of vanadium in, —continued
spectrophotometric, 10B110, 10B147
detmn. of zirconium in, by spectrophotometry, 1B121, 8B74
sulphonitrazo E in spectrophotometric, 1B124
extraction of iron and alloying additives from, with 2,2-dipropylpropane-1,3-diol, 11B143
identn. of stainless, by portable thermoelectric and spectroscopic instruments, 10B152
image analysis of, by X-ray micro-analyser, 8B119
—, **stainless**, analysis of, by ICP a.e.s., 11F9
detmn. of chromium dissolved from, by g.c., 10B150
detmn. of δ -ferrite in, by second-step-potential etching current method, 12B148
detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126
- Sterculia foetida**, sepn. of cyclopropanoid fatty acids in oil of, by h.p.l.c., 5D124
- Sterigmatocystin**, detection of, in cheese, by h.p.l.c., 10F44
detmn. of, in cereals, by t.l.c. and spectrophotometry, 2G5
in mouldy food, by t.l.c., 5F6
sepn. of, from *Aspergillus*, by h.p.l.c., 9D152
- Sterilizing gas**, detmn. of ethylene oxide in, by i.r. spectrometry, 5E61
- Steroid glucuronides**, analysis of, by fast-atom-bombardment m.s., 9D11
detmn. of, in plasma and urine, by m.s., 4D180
- Steroid 17,20-lyase**, assay of, in rat testes, radiometric, 5D257
- Steroids**, detection of, by h.p.l.c. with tensammetric detector, 4J36
by t.l.c., 3D116
detection of anabolic, in urine, by g.l.c. - m.s., 6D69
detection of derivatives of, in urine, by capillary g.c., 4J74
detection of oxo-group-containing, in biological materials, by g.c. with thermionic detection, 7D137
detmn. of, 4E64B
by g.c. - m.s. of mixed silyl derivatives, 12D136
by h.p.l.c. - n.m.r., on-line and off-line techniques in, 7J40
by immunoassay, buffer protein in, 1D114
by m.s., review, 9D136
in biological fluids, by g.l.c. and g.l.c. - m.s., 6D184
in edible animal tissues and endocrine glands, by r.i.a., review, 12D135
in equine urine, by derivatization - g.c. - m.s., 10D77
in porcine follicular fluid, by h.p.l.c., g.c. and g.c. - m.s., 6D189
in tumour tissues, by g.c. - m.s., review, 8D132
in urine, by g.c., 11D144
by liquid chromatography - m.s., 4J32
detmn. of anabolic, in bovine serum, bile, urine and faeces, by two-dimensional t.l.c., 7D96
in meat, bile, urine and faeces, by r.i.a., review, 8F25
detmn. of conjugated, in plasma, by g.l.c. and g.c. - m.s., 4D181
detmn. of esters of, 7E15
detmn. of free, in plasma, by rate dialysis, 8D128
detmn. of hormonal, in biological materials, by h.p.l.c., review, 10D146
detmn. of hormone, by r.i.a., review, 7D138, 7D139
detmn. of unbound, in plasma, review, 8D133
extraction of, from tissue, by solvent and gel extraction, 6D187
extraction of hormonal, from plasma, by filtration through Sep-Pak C₁₈, apparatus for, 12D11
identn. of anabolic, in bovine urine, by g.l.c. - m.s., 6D125
identn. of isomers of, m.s. in, 4D183
purification of partly degraded radiolabelled, by partition, 8D129
sepn. of, by continuous-development t.l.c., 11J46
by h.p.l.c., 8D134
liquid phases for, 7J30
mobile phases for, 5J29
stationary phases for, 5J24, 6D185
by h.p.l.c. on phenyl-derivatized silica gel, 7D140
by liquid - solid chromatography, solvent selection in, 11D148
by parallel-development t.l.c., 10J61
by reversed-phase h.p.l.c., 11D146
by time-optimized t.l.c., 6J54
by t.l.c. on alumina, mobile phases for, 8D130
from fatty tissue, by h.p.l.c. with column-switching, 7F40
from lipid matrices, by extraction - micro-column chromatography, 5D151
from other steroids of blood plasma, by h.p.l.c., 4D179
small-scale gel-chromatographic, 8D131
- , **3 β ,17 β -dihydroxy-**, detmn. of, in urine, immobilized hydroxysteroid dehydrogenases in continuous-flow automated, 9D99
- , **3 α -hydroxy-**, detmn. of, in urine, immobilized hydroxysteroid dehydrogenases in continuous-flow automated, 9D99
- , **Δ^4 -3-oxo-**, detmn. of, by difference circular dichroism, 5E25
- Steroid sulphates**, analysis of, by fast-atom-bombardment m.s., 9D11
detmn. of, in plasma and urine, by m.s., 4D180
- Steroid 3-sulphates**, sepn. of, by reversed-phase h.p.l.c., 11D146
- Steroid sulphates, 17-oxo-**, detmn. of, in serum, by h.p.l.c., 12D138
- Steroid sulphotransferase**, assay of, in hepatic cytosol and breast-tumour cytosol, by radiometry, 4D310
- Sterols**, detmn. of, in fats and oils, by capillary g.c., 3F34
by g.l.c. after saponification and t.l.c., 4F77
in olive oil, by g.l.c., 4F80
- Sterols—continued**
detmn. of oxygenated, in serum and plasma, by g.l.c., 5D142
sepn. of, by t.l.c., 2J38
- Sterol-sulphatase**, assay of, in placenta and skin, radiochemical, 12D235
- Stevia rebaudiana**, sepn. of diterpene glycosides of, by h.p.l.c., 9E9
- Stilbene**, analysis of recoil-tritium reaction products of, by radio h.p.l.c., 11J30
- Stilbene derivatives**, detmn. of, of plants, by h.p.l.c., 12E17
- Stilbene 3-glucoside, tetrahydro-**, detmn. of, of plants, by h.p.l.c., 12E17
- Stilboestrol**, detmn. of, by differential pulse polarography after u.v. irradiation, 5E55
in biological materials, by h.p.l.c. with electrochemical detection, 5D57
in bovine urine, by g.l.c. with e.c.d., 4D134
in edible animal tissues and endocrine glands, by r.i.a., review, 12D135
in faeces, by r.i.a., interference from fluocortolone and dexamethasone in, 5D149
in meat and meat products, by g.c. - m.s., 1F9
in urine and biological tissues, by h.p.l.c., fluorimetric detection in, 2F17
- Stiroleamide**, detmn. of, in plasma, by g.l.c., 12D92
- Stoddard solvent**, detmn. of, in air, by g.l.c., 3H17
- Stomach**, detmn. of chlorpromazine and its metabolites in, by h.p.l.c., 3D54
- Stomach contents**, detmn. of nicotine, caffeine and malathion in, 7D38
- Strawberries**, detmn. of pyrazophos in, spectrophotometric, 12G10
detmn. of sugars in purees of, by h.p.l.c., 11F27
- Streptococcus lactis**, detmn. of acetaldehyde in cultures of, by h.p.l.c. of its 2,4-dinitrophenylhydrazide, 4D153
- Streptomycin**, detmn. of, by potentiometry with carbon dioxide sensor and *Escherichia coli*, 5E22
by spectrophotometry, 1E15
in biological fluids, spectrophotometric, 12D69
in blood, milk or urine, by pptn. and spectrophotometry, 8E37
in serum, by fluorescence polarization immunoassay, 5D54
- Streptoviridin**, sepn. of, from other tunicaminyllucil-based antibiotics, by h.p.l.c., 4E28
- Strontium**, detmn. of, by differential pulse stripping voltammetry, 2B25
complexometric, 10C27
in aluminium alloys, by a.e.s., 2B32
in amniotic fluid, by PIXE - a.e.s., 1D23
in bastnaesite, by ion exchange, 3B54
in brain and serum, by a.a.s., 5D20
in fly ash, by ICP a.e.s., 12J99
in presence of carbon black, by flame spectrometry, 9B34
in rocks and soils, by a.a.s., 1B151
in sheet glass, 7B151
in silicates, by energy-dispersive X-ray spectrometry, 11B74
in strontium titanate, complexometric, 7B160
in waste water of high mineral content, by flame photometry, 11H75
simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
extraction of, 2B23
sepn. of, by ion-exchange and column chromatography, 6B16
from iron, indium, bismuth and lead, by column chromatography, 5B61
from other bivalent cations, by chromatography on zirconium molybdate, 3B2
from used nuclear fuels, ammonium molybdophosphate column in, 12B77
sepn. of barium, cerium, lanthanum and yttrium from, by column chromatography on manganese dioxide, 4B64
- Strontium-90**, detmn. of, in urine, by extraction - scintillation counting, 12D23
in water and biological samples, by ion-exchange chromatography, 5B62
extraction of, from biological materials, with cobalt dicarbollide, 5D18
- Strontium titanate**, analysis of, by complexometric titration, 7B160
- Strychnine**, detmn. of, by measurement of pitch of liquid-crystal matrices, 8E9
in *Strychnos pierriana*, by h.p.l.c., 7E5
in blood and urine, by spectrophotometry, 5D49
in Chinese medicines, by t.l.c., 9E6
in diamorphine, by colorimetry, interference in, 4E11
in nux vomica, by first-derivative spectrophotometry, 10E10
by h.p.l.c., 12E11
in tincture of nux vomica, by h.p.l.c., 12E12
identn. of, in illicit preparations, microcrystalline, 12E6
- Stylosin**, detmn. of, in bark of *Fraxinus stylosa*, by t.l.c. - densitometry, 12E21
- Styrene**, detmn. of, indirect fluorimetric, 7C34
in foods, by g.l.c. and h.p.l.c., 11F11
in margarine, by g.c., 4F46
in paints, by n.m.r., 6C58
h.p.l.c. of oligomers of, 9J18
sepn. of oligomers of, by h.p.l.c., 2C73
- , **α -methyl-**, detmn. of, in polymers, by g.l.c., 6F22
- Styrene derivatives, chloro-**, detmn. of, in fish tissues, by g.c. - e.c.d. and g.c. - m.s., 6D136

- Subtilisin BPN**, assay of, by h.p.l.c. of hydrolysis product, 3D266
- Succinic acid**, detmn. of, in egg products, by g.l.c., as indicator of spoilage, 11F19
in orange, grapefruit and cherry juices, by h.p.l.c., 5F36
in wine, by paper chromatography, 4F72
sepn. of, by paper chromatography, 11C11
from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- , **mercapto-**, detmn. of, manganese^{III} in coulometric titrimetric, 12A7
- Succinic anhydride**, sepn. of, by g.l.c., 4C27
- Succinimide, 3-chloro-N-ethyl-**, detmn. of, in N-ethylmaleimide, by g.l.c., 4C27
- Succinohydrazide**, detmn. of, spectrophotometric, 3C20
- Sucrose**, detection of, in illicit narcotics, by g.l.c., 11E4
detection of bitter products of heating proline with, by gel chromatography and h.p.l.c., 11F6
detmn. of, by complexometric titration, metallochromic indicator for, 11A14
enzymic - electrometric, 7F12
in bakery products, enzymic, 4F24
in cane sugar, by h.p.l.c., 4F17
in cane-sugar process materials, by h.p.l.c., 4A1B
in food, by h.p.l.c. and g.l.c., 12F4
in foods and beverages, amperometric, 2F4
in plant tissue, by h.p.l.c., 4D147
in sugar beet, with enzyme electrode, 3J110
review, 10F25
detmn. of carbon in, by coulometric - photometric titration, 5B130
molecular secondary-ion m.s. of, 3J90
- Sucrose esters**, detmn. of, by g.l.c., 2F10
by t.l.c. and g.l.c., 6F25
- Suet**, detection of, in butter, by differential scanning calorimetry, 5F34
detmn. of partial glycerides in, by g.l.c., 6F79
- Sugar**, analysis of, 9A4B
review, 10F25
detmn. of acetic acid in brown, by g.c., 11F12
detmn. of amino-acids in, by g.l.c., 6F23
detmn. of carboxylic acids in products of manufacture of, by g.c. and h.p.l.c., 9F19
detmn. of dry solids in coloured soln. of, by dilution and refractometry, 6F24
detmn. of organic acids in, by g.l.c. of butyl esters, 4F18
detmn. of zinc in, by spectrophotometry, 3H36
- , **cane**, detmn. of sucrose, glucose and fructose in, by h.p.l.c., 4F17
- Sugar alcohols**, detmn. of, by anion-exchange chromatography, 2C17
- Sugar beet**, assay of UDPglucosyltransferase in leaves of, by h.p.l.c., 7D244
detmn. of aldicarb and thiofanox and their metabolites in leaves of, by t.l.c., 12G15
detmn. of organic acids in, by h.p.l.c., 4F14
detmn. of sucrose in, with enzyme electrode, 3J110
- Sugar cane**, detmn. of, in maple syrup, by m.s., 10F23
detmn. of dirt and fibre in, 4A1B
detmn. of proteins in, interference by polysaccharides and tannin in spectrophotometric, 3F10
detmn. of 2,3,7,8-tetrachlorodibenzo-p-dioxin in, by g.l.c. - m.s., 6F26
- Sugar-factory products**, detmn. of pesticides in, column adsorption method for purifying extracts for, 4F15
- Sugar juices**, detmn. of dextran in, by pH measurement, 4A1B
detmn. of organic acids in, by g.c. and h.p.l.c., 4F16
by h.p.l.c., 4F14
detmn. of proteins in, interference by polysaccharides and tannin in spectrophotometric, 3F10
- Sulconazole nitrate**, detmn. of, in pharmaceutical creams, by h.p.l.c., 1E18
- Sulfadoxine**, detmn. of, in plasma, by h.p.l.c., 9D93
- Sulfamerazine**, detmn. of, by differential scanning calorimetry, 5E30
by indirect a.a.s., 8E81
in plasma or serum, in presence or absence of trimethoprim, by t.l.c., 4D124
- Sulfamonomethoxine**, detmn. of, in chicken tissue or egg, by h.p.l.c., 7F20
- Sulfaquinoxaline**, detmn. of, in chicken tissue or egg, by h.p.l.c., 7F20
in meat and tissues, by t.l.c., 2D101, 2D102
in muscle and liver, by h.p.l.c., 2D103
- Sulindac**, detmn. of, and its metabolites, in plasma by t.l.c. - densitometry, 12D79
- Sulmazole**, detmn. of, with its metabolites, in body fluids, by h.p.l.c., 7D80
- Suloctidil**, detmn. of, in pharmaceutical preparations, by h.p.l.c., 11E38
- Sulphabromomethazine**, detmn. of, in meat and tissues, by t.l.c., 2D101
- Sulphacetamide sodium**, detmn. of, by thermal analysis, 1E30
improved end-point in non-aqueous titrimetric, 11E43
- Sulphadiazine**, detmn. of, by differential scanning calorimetry, 5E30
by indirect a.a.s., 8E81
by micro-bore column h.p.l.c., 6J29
in plasma or serum, in presence or absence of trimethoprim, by t.l.c., 4D124
- Sulphadimethoxine**, detmn. of, by micro-bore column h.p.l.c., 6J29
in chicken tissue or egg, by h.p.l.c., 7F20
in meat and tissues, by t.l.c., 2D101, 2D102
- Sulphadimidine**, detmn. of, in formulations, spectrophotometric, 8E48
- Sulphadimidine**, detmn. of, —continued
in meat and tissues, by t.l.c., 2D101, 2D102
in tissue from cattle and pigs, by g.c. - m.s., 10F14
- Sulphafurazole**, detmn. of, by micro-bore column h.p.l.c., 6J29
in chicken tissue or egg, by h.p.l.c., 7F20
in pharmaceutical preparations, by h.p.l.c., inter-laboratory assessment of, 4E55
- Sulphaguanidine**, detmn. of, by thermal analysis, 1E30
- Sulphamethoxazole**, detmn. of, in biological fluids, by h.p.l.c., 7D87
in presence of trimethoprim, in pharmaceutical preparations, by colorimetry, 7E37
- Sulphamethoxypyridazine**, detmn. of, by thermal analysis, 1E30
- Sulphamic acid**, detmn. of, by indirect iodimetric titration, 12C2
by spectrophotometry, 7B94
- Sulphamoxole**, detmn. of, by differential scanning calorimetry, 5E30
- Sulphanilamide**, detmn. of, in soil, by t.l.c., 2G20
- Sulphanilamides**, detmn. of, as metal complexes, review, 10E2
in formulations, spectrophotometric, 8E48
- Sulphanilic acid**, detmn. of, in synthetic food colours, by ion-pair liquid chromatography, 7F25
- Sulphasalazine**, detmn. of, in serum, urine or faeces, by h.p.l.c., 9D75
- Sulphasomidine**, detmn. of, by thermal analysis, 1E30
- Sulphate**, detection of, in ion chromatography, 7J47
detmn. of, after sepn. from other sulphur anions by ion chromatography, 11B104
amperometric, 9B117
by a.a.s., from reduction of calcium signal, after ion-exchange sepn., 4B121
by flow injection - spectrophotometry, 12B26
by ion chromatography, 9J38
calibration in, 8J39
by ion chromatography with EDTA as eluent, 12B24
by potentiometric titration, 6B124
by reduction - spectrophotometry, 8B96
flow injection - molecular-emission cavity analysis system for, 9B114
germanium sulphide in molecular-absorption spectrophotometric, 3B72
in air, by ion chromatography, 8H18
by photometry, 6H25
effect of alkalinity of filters on, 11J8
in drinking water, by capillary free-zone electrophoresis, 3H37
in environmental materials, by single-column ion chromatography, 2H49
in fertilizers, by potentiometric titrimetry, 10G11
in fertilizers based on potassium chloride or potassium sulphate, reference materials for, 5G20
in lake water and sediment, with lead^{II}-selective electrode, 10H59
in minerals, soil and rocks; by thermal analysis, 1B154
in natural waters, by ion chromatography, 3H30
titrimetric, 6H69
in paper-industry effluents, by conductometric titration, 6H96
in potable and natural water, by ion chromatography, 3H29
in precipitation water, by ion chromatography, 12H42
in presence of nitrate, by potentiometric titration, 5B191
in presence of persulphate, by capillary isotachopheresis, 1B98
in serum, by ion chromatography, 2D37
in snow, by ion chromatography, 5H71
in snow and ice, by ion chromatography, 8H43
in sodium hydroxide soln., flow-injection, 8B23
in water, by colorimetry, 7H50
flow-injection - spectrophotometric, 11H47
in estimation of pollution potential of oil shale, 1C25
in water and effluents, by ion chromatography, automated, 12H43
in wine, by photometric titration, 3F31
lead - EDTA in spectrophotometric, 1B100
potentiometric titrimetric, indicator electrodes for, 12B120
zirconium - xylenol orange in spectrophotometric, 1B99
- detmn. of inorganic, in plasma, centrifugal analyser in, 9D32
detmn. of water-soluble, in pigments, by amperometric titration with lead acetate, 12C77
identn. of, in metal compounds, by a.a.s., 5B20
sepn. of, from other anions, by ion chromatography, optimization of non-suppressed, 8B16
prediction of retention in non-suppressed, 8B17
- Sulphates**, i.r. photoacoustic spectrometry of powdered, calibration curves in, 9B112
- , **alkyl**, detmn. of, in reaction mixture from sulphation of secondary aliphatic alcohols, by liquid chromatography, 4C30
- , **sodium salts**, detmn. of, alkanols in, by h.p.l.c. as alkyl naphthyl urethans, 7C72
- Sulphathiazole**, detmn. of, by differential scanning calorimetry, 5E30
by indirect a.a.s., 8E81
by thermal analysis, 1E30
in formulations, spectrophotometric, 8E48
in honey, by reversed-phase h.p.l.c., 8F18
in meat and tissues, by t.l.c., 2D101
in plasma or serum, in presence or absence of trimethoprim, by t.l.c., 4D124
- Sulphide**, detmn. of, by derivative pulse polarography, 5B187
by ion chromatography, 10B2

Sulphide, detmn. of,—continued

- by spectrophotometry with *N'*-(4-methylthiazol-2-yl)acetohydrazide, 5B189
- cacotheline in photometric, 6B123
- NN*-diethyl-*p*-phenylenediamine in automated colorimetric, 6H71
- electrode for, 10J134
- flow injection - molecular-emission cavity analysis system for, 9B114
- generated by *Desulfovibrio* bacteria, selective electrode in, 6B122
- germanium sulphide in molecular-absorption spectrophotometric, 3B72
- in industrial soln., by potentiometric titration, 7B95
- in natural waters, by iodimetry, spectrophotometry and ion-selective electrode, 5H68
- in sediment, by colorimetry, 4H65
- in sewage sludge, by g.l.c., 4H81
- in water, as methylene blue, concentration method for, 9B115
- by colorimetry, 7H50
- by ion-selective electrode, 4J167
- by vaporization and absorption followed by titrimetry, 8H69
- ion-selective electrodes for, 2J112, 12J153
- reagent for, 5A10
- silver sulphide membrane electrode in, 3B74
- detmn. of acid-reactive, in sediments and sewage sludge, by evolution of hydrogen sulphide, 6H72
- detmn. of labile, in iron - sulphur proteins, by spectrophotometry, 1D175
- detmn. of trace, in water, by extraction - spectrophotometry, 11H49
- ion-selective electrode for, 10J139
- **bis**-(2-chloroethyl), detmn. of, by t.l.c., 4C101
- **2-chloroethyl ethyl**, detmn. of, by reversed-phase h.p.l.c., 9C93
- **ethyl vinyl**, detmn. of, by reversed-phase h.p.l.c., 9C93
- Sulphides, organic**, detmn. of, by g.c. with direct aq. injection, 10C2
- identn. of, in pyrolysis products of petroleum, by i.r. spectrometry, 9C60
- sepn. of cyclic, by h.p.l.c., 9C43
- **dialkyl**, detmn. of, by cathodic-stripping voltammetry, 7C29
- sepn. of, by t.l.c., 8C23
- **dibenzyl**, detmn. of, iodobis(trifluoroacetoxy)benzene in potentiometric titrimetric, 11A17
- **dimethyl**, detmn. of, in air and dust, by g.c., 4H29
- **diphenyl**, sepn. of substituted, by h.p.l.c., 7C105
- Sulphapyrazone**, detmn. of, in pharmaceutical preparations, spectrophotometric, 2E28
- in plasma and urine, by h.p.l.c., 6D129
- detmn. of azobenzene and hydrazobenzene in, by h.p.l.c., 5E35
- Sulphite**, detmn. of, after sepn. from other sulphur anions by ion chromatography, 11B104
- by ion chromatography of thiosulphate with quenched-phosphorescence detection, 12B103
- by potentiometric titration, 6B124
- by second-derivative spectrophotometry, 5B188
- by titrimetry with *N*-bromosuccinimide, 5B131
- cacotheline in photometric, 6B123
- flow injection - molecular-emission cavity analysis system for, 9B114
- fluorimetric, 9B113
- germanium sulphide in molecular-absorption spectrophotometric, 3B72
- in food, enzymic, 5F4
- in soln., electrode for, 9J134
- in water, by colorimetry, 7H50
- in wine, by gas-phase u.v. absorption spectrophotometry, 7F87
- Sulpho-groups**, detmn. of, in sulphite pulps, titrimetric, 11C66
- Sulphonamides**, detmn. of, by indirect a.s.s., 8E81
- in chicken and eggs, by h.p.l.c., 11F17
- in chicken tissue or egg, by h.p.l.c., 7F20
- in liver, by Tishler method, interference by anthranilic acid in, 4D125
- reagents for fluorimetric, 5A11
- identn. of, in liver, by m.s., 1D64
- sepn. of, by h.p.l.c., optimization of mobile phase for, 7E38
- by two-dimensional t.l.c., 11E44
- Sulphonates, alkene-**, detmn. of, in reaction mixture from sulphation of secondary aliphatic alcohols, by liquid chromatography, 4C30
- detmn. of alkali-metal salts of, by spectrophotometric titration, 7C73
- Sulphone, dichloromethyl methyl**, detmn. of, in fish, by g.c. - m.s. or m.s., 9D103
- Sulphones, aromatic**, detmn. of, bromatimetric, 6C29
- Sulphonic acids**, sepn. of enantiomers of, by h.p.l.c., cinchona alkaloids as counter-ions in, 7C24
- **aromatic**, sepn. of, from sulphuric acid, by anion exchange, 10C42
- Sulphoxides**, sepn. of enantiomers of, by high-performance liquid affinity chromatography, 9E55
- by h.p.l.c., 5C36
- Sulphoximines**, sepn. of enantiomers of *N*-substituted, by h.p.l.c., 5C36
- Sulphur**, detection of, atmospheric-pressure active-nitrogen after-glow in, 10B18
- detmn. of, by molecular absorption spectrometry, 10J92
- in air, by PIXE, 10H3
- in air and kraft condensate, by titrimetry, 3H15
- in air and steel, cadmium-selective electrode in indirect, 2B65
- in air-borne particulates, 6H23, 6H24

Sulphur, detmn. of,—continued

- in albumin, by X-ray micro-method, standards for, 7D16
- in blast-furnace slag and iron ore, by potentiometric titration, 2B72
- in coal, by reduction - titrimetry, 7B143
- by sub-stoichiometric isotope dilution, 8B131
- in coal and oil shale, by a.s.s., 2B86
- in conifer needles, by ICP a.e.s. after nitric acid digestion, 12D44
- in environmental materials, by single-column ion chromatography, 2H49
- in erythrocytes and plasma of pregnant women, by PIXE, 12D17
- in gas oils, reference materials for, 11C42
- in hair, by PIXE, 4D55
- in metal complexes, after combustion and selective trapping, 4C4
- in metals, nephelometric, 10B117
- in metals and alloys, by m.s. as arsenic monosulphide ion, 12B119
- in oil shale, 8C60
- in organic compounds, by combustion - potentiometric titration, 5C8
- by indirect a.s.s., 12C7
- ICP - FT near-i.r. spectrometer system for, 12C5
- titrimetric, 10C8
- in petroleum, XRF analyser for, 8C49
- in petroleum and petroleum products, by X-ray absorption spectrometry, 5C65
- in petroleum products, by n.a.a., 5C66
- in phosphoric acid, by XRF, 2B55
- in phosphorites, titrimetric, 9B118
- in pig iron, by ICP a.e.s., 12B146
- in plants, automated analyser for, 11D29
- by ion chromatography, 7D34
- by XRF, 1D30
- 4'-chlorobiphenyl-4-amine in spectrophotometric, 2D41
- in proteins, by electron micro-probe analysis, 10J80
- in quicklime, hydrated lime and calcium carbonate, 9B38
- in rare-earth-metal sulphoxides, by potentiometric titrimetry, 9B121
- in silicates, by i.r. spectrometry following combustion, 8B68
- in slag, by combustion - i.r. absorptimetry, 7B93
- in snow, by PIXE, 3H51
- in soil and biological materials, by ICP a.e.s., 10D17
- in steel, by isotope-dilution m.s., 11B138
- in titanium^{IV} chloride, by reaction - g.c., 12B96
- in urban aerosols, by XRF, 6H13
- in xylene, by ICP a.e.s., 9C24
- ion-selective electrode in potentiometric titrimetric, 1B97
- simultaneously with other elements in organic compounds, by pyrolysis - g.c., 12C3
- detmn. of inorganic, in air-borne particles, titrimetric, 12H21
- detmn. of isotopic composition of, in galena, by m.s., 12B91
- detmn. of isotopic ratio of, in geological materials, sulphur dioxide standards in, 9B119
- detmn. of organic, in coal, by scanning electron microscopy - energy-dispersive X-ray spectrometry, 5C79
- by scanning electron microscopy - X-ray analysis, 5C78
- Sulphur-35**, sepn. of, from other radionuclides, by ion exchange or chromatography on alumina, 4B129
- Sulphur compounds**, detmn. of, in natural gas, by g.c. with flame-photometric detection, 10C52
- in sediment, soil or water, by spectrophotometry, oxidation or reduction techniques for, 4H48
- detmn. of gaseous, in oil shale, by m.s., 12B174
- detmn. of organic, by head-space g.l.c., 7C41
- in domestic refuse, by combustion and ion chromatography, 5H97
- in shellfish, oil and water, by g.c. - m.s., 3H70
- in urine, by purge-and-trap g.c. - flame photometry, 7D100
- detmn. of volatile, in breath, by g.c., 1D81
- g.c. of organic, storage and sample-introduction systems for, 10C3
- m.s. of, in petroleum, 2C42
- m.s. of organic, in petroleum, 2C43
- sepn. of, by gel filtration, 1D80
- Sulphur dioxide**, adsorption of, by air-sampling tubes, 12H25
- detection of trace, in nitrogen, by piezoelectric crystal, validity of Sauerbrey equation in, 11B89
- detmn. of, by parosaniine method, standard for, 10B115
- by radio-release method with quinol kryptonate, 9B120
- in air, by chemiluminescence, 12H24
- by g.c., 3H14
- by repetitive-scanning derivative spectrometry, 7H9
- colorimetric, 9H22
- containing nitrogen dioxide, by atmospheric ionization m.s., 6H20
- laser systems for, 12H12
- "lead candles" in, 5H25
- microwave spectrometer for, 9H5
- oxalohydroxamic acid as absorbing reagent for colorimetric, 4H28
- passive monitor for, 11H17
- personal monitors for, review, 9H23
- spectrophotometric, 10H26
- u.v. - visible spectrometer for, 12H22
- in combustion and waste gases, review, 10H28
- in foods, 11F48B
- in maize, by direct titrimetry, 1G1
- in stack gas, electrochemical analyser for, 12H23

Sulphur dioxide, detmn. of.—*continued*

- laser thermal lensing detection in colorimetric, 9B116
lead^{II}-selective electrode in, 7B97
potentiometric, 10J140
u.v. spectrophotometric, instrument for, 8B92
detmn. of free and molecular, in foods, by head-space g.c., 6F68
detmn. of trace, in air, by g.c., review, 6H6
sampling of, in air, high-performance denuder for, 6H8
oxalohydroxamic acid in, 11H15, 11H16
tube diffusion dosimeter for, 4H27
- Sulphur hexafluoride**, detmn. of, in air, by i.r. spectrophotometry, 5H26
in gases, by g.c., 5J6
in helium, by total-internal-reflectance optoacoustic spectroscopy, 6J154
detmn. of trace impurities in, by g.c., 3B75
detmn. of water in, by g.c., 5B29
- Sulphuric acid**, detmn. of, in air, by photometry, 6H25
in nitric acid, by potentiometric titration, 5B191
detmn. of chloride in, by ion chromatography, 1B109
detmn. of nitrogen oxides in, effect of sulphur dioxide on, 6B125
detmn. of phosphorus in, by extraction - spectrophotometry, 9B122
detmn. of trace chloride in, by voltammetry, 10B118
sepn. of, from aromatic sulphonic acids, by anion exchange, 10C42
- Sulphuric acid dimethyl ester**, detmn. of, in air-borne particulate matter, by fluorimetry, 5H29
- Sulphuric acid dodecyl ester sodium salt**, detmn. of dodecanol in, by h.p.l.c. or surface-tension lowering, 5C85
- Sulphuric acid ester, indol-3-yl-**, identn. of, in uraemic serum, by h.p.l.c., 1D122
- Sulphur oxides**, detmn. of, reference methods for, 7H16
- Sulphur trioxide**, detmn. of, in combustion and waste gases, review, 10H28
potentiometric, 10J140
- Sulphuryl fluoride**, detmn. of, in sulphur hexafluoride, by g.c., 3B75
- Sulfones**, detmn. of, in reaction mixture from sulphonation of secondary aliphatic alcohols, by liquid chromatography, 4C30
- Sultopride**, detmn. of, in serum and saliva, by h.p.l.c., 9D65
- Sunflower-seed oil**, analysis of triglycerides of, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
characterization of, fluorescence topography in, 9F57
detmn. of peroxidized fatty acids in, iodimetric and polarographic, 12F42
detmn. of polar compounds in, IUPAC method for, 10F73
- Sunflower seeds**, analysis of lipids of, by high-resolution n.m.r., 10F68
assay of phenol oxidase activity in, spectrophotometric, 10F5
detmn. of fibre components in, 4F50
detmn. of oil in, by wide-line n.m.r. spectrometry, 6F81
detmn. of water in, by Karl Fischer titration, 5F60
- Sunscreen preparations**, detmn. of ethyl 4-(3-hydroxypropylamino)-benzoate in, by g.l.c., h.p.l.c., n.m.r. and t.l.c., 2C59
- Sun-tan preparations**, analysis of, by extraction - chromatography, 8C74
detmn. of alkanes, alkanols, esters and triglycerides in, by h.p.l.c. and g.l.c., 1C31
detmn. of 5-methoxypsoralen and limettin in, by h.p.l.c., 7C81
- Superoxide dismutase**, assay of, alkaline dimethyl sulphoxide in, spectrophotometric, 8D230
by oxidation of adrenaline, interference in, 11D232
effect of glutathione on, 11D229
in barley, 5F47
detection of, by isoelectric focusing, 1D197
- Superoxide dismutases**, assay of, electrode for, 3J111
- Surface analysis**, by Auger electron and X-ray photoelectron spectroscopy, review, 2J89
by Auger electron spectroscopy, review, 11J109
by electron spectroscopy, m.s., scattering spectrometry and nuclear reaction, review, 9J66
secondary-ion m.s. and ion-scattering spectrometry, 5J121
by electron spectroscopy and m.s., Leybold-Heraeus LHS 10 system in, review, 8J107
by glow-discharge spectrometry, 8J93
by head-space g.c., 11J49
by secondary-ion m.s., ion micro-probe in, 7B11
review, 1J91
by spectrometry and m.s., 6B6
by tomography, nuclear micro-probe in, 2J99
by ultra-soft XRF, 12J80
computer-aided spectroscopic, review, 11A26
detmn. of trace species on solids in, review, 8J68
electron micro-probe analysis in, 6J117
electron spectroscopy in, 12J116
review, 12J115
in the wire industry, review, 9B5
modern methods of, review, 11J107
of catalysts, by X-ray photoelectron spectroscopy, review, 12B181
of electrodes, by X-ray photoelectron spectroscopy, review, 12J149
of polymers, spectroscopic, review, 12C68
of semiconducting materials, by secondary-ion m.s., review, 12B184
of solids, X-ray method for determining effective thickness of measurement in, 6J115
physical methods of industrial, review, 11J108

Surface analysis—*continued*

- quantitative, without reference samples, by X-ray photoelectron and X-ray-induced Auger spectroscopy, 7J93
Raman spectrometry in, review, 12B6, 12B7
review, 5J65
spectroscopic techniques in, 12B5
review, 9J67
X-ray electron spectroscopy in, 4J140
- Surfactants**, adsorption of, on metal surfaces, ion-scattering spectrometric and secondary-ion m.s. study of, 7C66
analysis of amine-type, by h.p.l.c. with post-column reaction detection, 4C71
analysis of formulated, standard methods for, 7C67
detmn. of, by potentiometry with ion-selective electrodes, 5C84
by titrimetry, review, 7E1
in additives for concrete, by h.p.l.c., 9C67
in production soln. or sewage, by flow-injection analysis, with tensametric detection, 8C66
in sewage sludge, 1H43
in water, waste water and sludge, review, 8H91
ion-selective electrodes for, 6J174
review, 11H72
selectivity of membrane electrode for, 6J184
detmn. of active oxygen in formulated, titrimetric, 7C70
detmn. of alkylbenzenes in, by t.l.c. - g.l.c. and g.c. - m.s., 6H101
detmn. of anion-active matter in formulated, by two-phase titrimetry, 7C74
detmn. of boron in formulated, titrimetric, 7C69
detmn. of carbonates in, by g.c., 10C61
detmn. of fluorescent whiteners in formulated, by h.p.l.c., 8C67
detmn. of hydrolysable and non-hydrolysable anion-active matter in formulated, by two-phase titrimetry, 7C75, 7C76
detmn. of inorganic phosphates in, by h.p.l.c., 12C53
detmn. of phosphate and silicate in, by voltammetry, 6C46
detmn. of phosphorus pentoxide in formulated, gravimetric, 7C71
detmn. of trace, in water, review, 11H73
identn. of alkyl sulphate, by t.l.c. - i.r. spectrometry, 4C69
measurement of critical micelle concentration of, 12C54
sampling of formulated, standard methods for, 7C68
sepn. and characterization of non-ionic and anionic, by h.p.l.c., 7C80
sepn. of, in waste water, by t.l.c., 1H42
sepn. of amphoteric, by h.p.l.c., 3C57, 3C58
sepn. of ethoxylated phosphates in, by t.l.c., 12C52
structural analysis of amphoteric, from reaction of 2-alkyl-1-(2-hydroxyethyl)-2-imidazoline with ethyl acrylate, 5C82
from reaction of 2-alkyl-1-(2-hydroxyethyl)-2-imidazoline with sodium chloroacetate, 5C83
- , **anionic**, detmn. of, by back-titration with benzethonium chloride, 4C70
by m.s. - m.s. with fast-atom bombardment, 9C69
by potentiometric titrimetry with benzethonium-selective electrode, 4C68
in micro-emulsion phases, by ion-exchange - titration, 5C86
in shampoos, dodecyl sulphate-selective electrode in, 8C70
in water, by a.a.s., 3H71
by extraction - spectrophotometry, review, 8H86
photometric, 11C54
detmn. of octyl and decyl sulphates, ion-selective electrodes for, 10C63
detmn. of sodium sulphate in, by h.p.l.c., 9C70
ion-selective electrode for, 9J136
m.s. of, 5C87
- , **cationic**, detmn. of, by m.s., 4C66
in air, by spectrophotometry with picric acid, 4H46
in natural waters, by radiometry, iodine-131-labelled Rose Bengal in, 4C67
in waste water and river water, 11H79
review, 10C62
identn. of, by t.l.c., 12C55
- , **non-ionic**, analysis of, i.r. spectroscopic, 10C64
analysis of polyoxyethylated fatty alcohols, by direct h.p.l.c., 11C55
detection of polyoxyethylene, by ion-selective electrode, 5J182
detmn. of, by m.s., 4C66
in waste water, by spectrophotometry, 3H80
in water, by a.a.s., 3H67
spectrophotometric, 3H68
detmn. of average mol. wt. of, spectrophotometric, 7C77
detmn. of critical micelle concn. of, by spectrophotometry, 2C54
detmn. of polyoxyethylene, in water, spectrophotometric, 12H93
identn. of, in waste water, by g.c. - m.s., 11H78
measurement of mol.-wt. distribution of oxyethylated alcohol-type, by liquid chromatography, 7C78
sepn. of homologues of ethoxylate, by ion-exchange chromatography, 12C56
- Surgical equipment**, identn. of polymers in disposable plastic, by pyrolysis - g.c., 2E54
suture threads, detmn. of residual ethylene oxide in, by g.c., 5E62
- Suspended solids**, detmn. of, in waters, standardization of, 5H41
- Suspensions**, measurement of macroscopic properties of industrial, 10J149
- Suxamethonium**, detmn. of, in biological tissues, by t.l.c., g.l.c. and g.c. - m.s., 5D86

- Suxamethonium**, detmn. of, —continued
in tissues and body fluids, by g.c. - m.s., 11D96
- Sweat**, analysis of, by laser desorption m.s., 7D12
detmn. of proteins in, by electrophoresis, 1D153, 2J33
by isoelectric focusing, 10D186
- Sweet corn**, detmn. of sodium in, by ion chromatography, 5F2
- Sweeteners**, detmn. of, in foods, non-aqueous titrimetric, 10F21
- Sweet potatoes**, detmn. of oryzalin in, by derivatization - g.l.c., 10G19
- Swordfish**, detmn. of methylmercury in, by g.l.c., 8F33
- Sydacarb**, detmn. of, by g.l.c., 11E28
sepn. of, from similar pharmaceutical amines, by t.l.c., 2E36
- Sydnophen**, sepn. of, from similar pharmaceutical amines, by t.l.c., 2E36
- Sympathomimetic agents**, detmn. of amine-type, efficiency of acetyl derivatization in, 4E47, 4E48
- Syncomar**, detmn. of, by g.l.c., 5E56
- Synaovial fluid**, detmn. of complement component C9 in, immunoradiometric, 6D259
detmn. of mucopolysaccharides in, by laser nephelometry, 1D84
- Syringic acid**, detmn. of, in rapeseed flour, by g.l.c., 9G10

T

- T-66**, detmn. of, in flotation liquids, by spectrophotometry, 7B140
- 2,4,5-T, methyl ester**, detmn. of, in water, by g.l.c. and g.l.c. - m.s., 2H60
- Tabernaemontana**, sepn. of alkaloids of, by h.p.l.c., 10E6
- Table salt**, detmn. of fluoride in, by ion exchange - direct potentiometry, 9B20
detmn. of iodide in, by potentiometric titration, 1F18
detmn. of toxic elements in, 8F49
detmn. of trace iodine and iodide in, by spectrophotometric titration, 11B121
detmn. of zinc in, by spectrophotometry, 3H36
- Tableware**, detmn. of chromium dissolved from stainless-steel, by g.c., 10B150
- Talitrol, 2,5-anhydro-**, detmn. of, in biological fluids, enzymic, 4D145
- Tallow**, detmn. of ethoxyquin in, by h.p.l.c., 6G24
- Tamm-Horsfall-like glycoprotein**, detmn. of, in serum and cerebrospinal fluid, by r.i.a., 5D208
- Tamoxifen**, detmn. of, with its metabolites, in plasma, by h.p.l.c., 2D111
- Tannery liquors**, detmn. of chromium in, titrimetric, 8C96
- Tannic acids**, analysis of commercial samples of, by h.p.l.c., 4F71
detmn. of gallic, digallic and trigallic acids in, by h.p.l.c., 2C77
- Tanning materials**, analysis of, by a.a.s., errors in, 7C103
- Tannins**, detmn. of, in natural drugs, by spectrophotometry, 4E10
in persimmon juice, by refractometry, 6F58
- Tansy**, detmn. of essential oils and terpenes in, by head-space g.c., 4D144
- Tansy oil**, detmn. of terpenes in, by g.l.c., relative merits of modes of injection in, 4J57
- Tantalite**, detmn. of niobium pentoxide in concentrate of, by XRF, 11B8
- Tantalum**, analysis of, review, 6B119
detmn. of, by spectrophotometry with polyhydric phenols, 5B158
by titrimetry, 8B90
cinnamohydroxamic acids in spectrophotometric, 2B4
4,5-dibromophenylfluorone, surfactants and organic acids in spectrophotometric, 8B89
in niobium ores, by spectrophotometry, 1B96
in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
in ores, hexafluorotantalate-selective electrode in potentiometric, 12B116
in presence of niobium, by spectrophotometry, 6B121
in rocks, by spectroscopy, 11B8
in steel, spectrophotometric, 11B136
in tin-bearing minerals, by spectrophotometry, 7B79
in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
detmn. of hydrogen, oxygen and nitrogen in, hot hollow cathode device in spectral-isotopic, 12B13
detmn. of niobium in, fluorimetric, 10B111
detmn. of silicon and arsenic in, by chlorination - m.s., 8B64
detmn. of trace elements in sinter-, by secondary-ion m.s., 11B101
extraction of, from fluoride - sulphate soln., 5B183
- Tantalum alloys**, analysis of, by X-ray spectrometry, 11B11
- Tantalum oxide (Ta₂O₅)**, detmn. of, in niobium hydroxide, by XRF, 11B8
detmn. of niobium in, fluorimetric, 10B111
- Tars**, analysis of, by g.c., 8J59
by g.l.c., stationary phase for, 9J59
characterization of, by g.l.c., 6C33
by saponification, hydroxyl, iodine and acid values, 10H92
detmn. of aromatic and polar compounds in, by h.p.l.c., 1C29
detmn. of PAH and nitrogenous ring systems in flash-pyrolysis, spectrofluorimetric, 11C49
detmn. of PAH in, by g.c. - m.s., 2C52
identn. of nitrogen-containing polycyclic aromatic heterocycles in, by g.c. - m.s., 3C50
identn. of polycyclic aromatic nitro-compounds in, by g.c. - m.s. and g.c. - n.m.r., 8C64
sepn. of classes of nitrogen compounds in, by liquid chromatography, 8C63
- Tars—continued**
sepn. of nitrogen compounds of, 2C51
sepn. of pyridine bases in, by g.l.c., 9C61
- Tartar emetic**, detmn. of antimony^{III} in, by titration with dichromate, 5B174
- Tartaric acid**, detmn. of, in wine, by paper chromatography, 4F72
in wines, brandy and grape juice, colorimetric, 9F50
sepn. of, by paper chromatography, 11C11
from other organic acids, in leaf tissue, by h.p.l.c., 2D137
- Taurine**, detmn. of, in biological materials, by g.l.c., 11D176
fluorimetric, 8D169
- Taucholeic acid, N-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
- Taurolidine**, detmn. of formaldehyde in, by g.c., 2E41
- Tauro-β-muricholic acid**, detmn. of, in liver, by r.i.a., 1D119
- TDE**, detmn. of, by g.l.c., 2G27
in cod-liver oil, herring-flesh oil and fish oils, by g.l.c., 2G25
- Tea**, detmn. of antimony in, by hydride-generation a.a.s., 11F1
detmn. of bound copper, iron and zinc in, by h.p.l.c. with post-column derivatization, 6F70
detmn. of caffeine, theophylline and theobromine in, colorimetric, 10E13
detmn. of ethylamine in, by h.p.l.c., 6F69
detmn. of iron in, by spectrophotometry, 4H69
detmn. of toxic elements in packaged, by n.a.a., 5F43
- Tea leaves**, detmn. of cobalt in, spectrophotometric, 9B152
- Tears**, detmn. of proteins in, by isoelectric focusing, 10D186
detmn. of trace elements in, by a.a.s., 2D15
- Tebuthiuron**, detmn. of, in soil, by h.p.l.c., 11G30
- Technetium**, detmn. of, by ICP optical emission spectrometry, 12B134
extraction of carrier-free, 2-thenoyltrifluoroacetone in, 11B124
sepn. of, by co-pptn. with tetraphenylarsonium perchlorate, 11B125
from nuclear fuel reprocessing soln., by ion exchange, 10B74
- Technetium-96**, sepn. of carrier-free, from α-irradiated niobium, 11B100
- Technetium-99**, detection of radioactive contaminants in, by gas-flow proportional counting, 12B135
detmn. of, in urine, gas proportional counter in, 4D60
- Technetium-99m**, measurement of radiochemical purity of complexes of, by reversed-phase h.p.l.c., 12B136
- Technological materials**, detmn. of noble metals in, by extraction - n.a.a., 12B158
- Tegafur**, detmn. of, in serum, by g.l.c. with nitrogen-selective detection, 5D97
- Tellurium**, detmn. of, by a.e.s., source in, 5J94
by anodic-stripping catalytic polarography, 7B98
by cathodic-stripping voltammetry, removal of interfacing species in, 5B193
by graphite-furnace a.a.s., 9B106
by ICP a.e.s., with hydride generation, 5J102
in cadmium telluride, by distillation and polarography, 6B181
in copper and selenium, by flame a.a.s., 4B132
in iron artefacts, by n.a.a. and a.a.s., 11B14
in natural waters, by flotation - a.a.s., 9H57
by stripping voltammetry, 11H48
in phosphorus, by a.a.s., hydride-generating system for, 5B169
in rhenium heptoxide, by a.c. stripping voltammetry, 5B213
in rocks, by m.s. with isotope dilution, 5A17
papaverine in spectrophotometric, 11B108
detmn. of trace, by thermal-ionization m.s., direct electro-deposition in, 11J110
in copper alloys, by a.a.s., 10B36
detmn. of trace metals in, by n.a.a., 1B103
extraction of, with dithiocarbamates, 6B22
sepn. of, by cation-exchange chromatography, 4B180
by h.p.l.c., as xanthate complexes, 4B24
- Tellurium alloys**, analysis of, by a.a.s., 1B166
- Temazepam**, detmn. of, in plasma, by h.p.l.c., 4D103
- Temperature**, fibre sensors for, review, 7J142
- Teniposide**, detmn. of, and its metabolites, in biological fluids, by h.p.l.c. with electrochemical detection, 9D98
by h.p.l.c., 11E47
in blood and urine, by h.p.l.c., 4D128
in urine, by reversed-phase h.p.l.c., 8J29
- Tensammetry**, flow-through detectors for, design of, 7J138
- Terbium**, detmn. of, fluorimetric, surfactants in, 8B14
in alloys, in presence of aluminium, by spectrophotometry, 6B68
in lanthanoid mixtures, automated spectrofluorimetric, 6B86
in lanthanum compounds, dipicolinic acid in spectrofluorimetric, 7B65
in light-lanthanoid mixtures, by ion-exchange chromatography, 6B87
in mineral waters, 12H60
in presence of other lanthanoids and yttrium, by spectrofluorimetry, 5B102
in uraniferous rock, by n.a.a., 10B61
- Terbufos**, detmn. of, in air, personal sampling system for g.c., 5H37
- Terbutaline sulphate**, detmn. of, in pharmaceutical preparations, molybdophosphoric acid in spectrophotometric, 11E19
- Terbutryne**, detmn. of, in water, by g.l.c. after sorption on porous polymer, 5H83
- Terephthalate**, detmn. of, in urine, by g.c., 10D124

- Terephthalic acid**, detmn. of 4-formylbenzoic acid in, by square-wave voltammetry, 7C92
- Terpenes**, detmn. of, in plants, by head-space g.c., 4D144
- in tansy oil, by g.l.c., relative merits of modes of injection in, 4J57
- in volatile oils, by h.p.l.c., 1E5
- identn. of tricyclic, in rocks and sediments, by g.c. - m.s., 11B156
- , **di-**, identn. of, from Kovats retention indices in g.c., 9C37
- , **mono-**, concentration of, by trapping on chromatographic sorbents, 4C48
- identn. of, in essential oils, g.c., 10C65
- in maple syrup and eucalyptus, by g.l.c. - m.s., 3C60
- , **sesqui-**, detmn. of, by h.p.l.c., 3D101
- , **tri-**, detection of, by t.l.c., 3D116
- Terpenoids**, identn. of, by t.l.c., after oxidation, 4C49
- identn. of isomers of, m.s. in, 4D183
- γ -Terpinene**, sepn. of, from α -pinene, 3-carene and fenchone, by g.c. - n.m.r., 8J65
- Testes**, assay of steroid 17,20-lyase in rat, radiometric, 5D257
- Testolactone**, detmn. of, in plasma or urine, by h.p.l.c., 6D71
- , **4,5-dihydro-**, detmn. of, in plasma or urine, by h.p.l.c., 6D71
- Testosterone**, detmn. of, by immunoassay, buffer protein in, 1D114
- by t.l.c., fluorescent derivatives in, 2D156
- in blood serum, by h.p.l.c. - r.i.a., 4D191
- in edible animal tissues and endocrine glands, by r.i.a., review, 12D135
- in meat, by t.l.c., 8F29
- in plasma, by ligand differentiation r.i.a., 4D188
- by r.i.a., 2D155, 9D55
- in serum, by r.i.a., 4D190
- reference material for, 5D143
- in urine, by t.l.c., 6D192
- detmn. of ratio to progesterone of, in bloodstains, for sex identn., 6D186
- purification of partly degraded radiolabelled, by partition, 8D129
- sepn. of, from other steroids of blood plasma, by h.p.l.c., 4D179
- sepn. of hydroxylated products of, by h.p.l.c., 11D235
- , **dihydro-**, detmn. of, in plasma, by r.i.a., 2D155
- , **17 α -methyl-**, detection of metabolites of, in body fluids, by computerized g.l.c., 6D70
- Testosterone 17 β -D-glucuronide**, detmn. of, in urine, by solid-phase chemiluminescent immunoassay, 4D189
- Tetracene**, detection of, by synchronous fluorescence, silicon-intensified target vidicon in, 3J82
- Tetracosane**, detmn. of, in menadione, by differential scanning calorimetry, 1E19
- in phenacetin, by differential scanning calorimetry, 1J122
- Tetracycline**, detmn. of, by voltammetry, 6E29
- in fish, by t.l.c., 1F11
- in pharmaceutical preparations, spectrophotometric, 12E26
- Tetracyclines**, detmn. of, by t.l.c., 8E32
- in pharmaceutical preparations, by spectrophotometry, ammonium vanadate in, 4E26
- sodium cobaltinitrite in spectrophotometric, 11E3
- Tetradec-11-enal**, detmn. of, in insect attractants, by cold-trapping and bioluminescence, 3G23
- Tetrahydrofolate dehydrogenase**, assay of, in *Plasmodium falciparum*, by coupled radiometric method, 4D303
- Tetrahydrozoline**, detmn. of, in ophthalmic soln., by h.p.l.c., 6E41
- identn. of hydrolysis products of, 9E41
- Tetralin, 2-amino-3-hydroxy-**, detection of 5- or 8-substituted derivatives of, by g.l.c., group-specific reagents for, 10E7
- Tetramethrin**, detmn. of, by g.c. and t.l.c., 9G26
- in fruit and vegetables, by g.l.c., 2F32
- in grain, by g.l.c. - e.c.d., 7G37
- in shampoos or lotions, by capillary-column g.c., 11E50
- review, 11G40
- Tetramisole**, detmn. of enantiomers of, by n.m.r. spectrometry, 6E54
- Tetramisole hydrochloride**, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
- in pharmaceutical preparations, spectrophotometric, 2E43
- identn. of, X-ray powder diffraction data for, 8E84
- Tetrapleura tetraptera**, detmn. of scopoletin in fruit of, by t.l.c. and polarography, 6E23
- Tetraphenolate**, detmn. of, in soln., indirect spectrophotometric, 10B116
- Textile finishes**, detection of, on cotton, polyester and cotton - polyester fabrics, by XRF spectrometry, 4C85
- Textiles**, analysis of, by near-i.r. reflectance spectrometry, 5J116
- by scanning electron microscopy, 9C76
- analysis of finishing agents on, by i.r. spectrometry, 9C75
- detection of trace iron in, colorimetric, 11C71
- detmn. of elastane, modacrylic and polychloride fibres in blended, by hot extraction, 10C76
- detmn. of flame-resistant finishes on acrylic, by frustrated multiple-internal-reflection spectrometry, 5C98
- detmn. of fluorine in oil- and water-repellant-treated, by decomposition - g.l.c., 8C79
- detmn. of formaldehyde in, spectrophotometric, 9C15
- detmn. of hydroxyanthraquinones in ancient, by g.c. and g.c. - m.s., 3C25
- detmn. of polynosic in polynosic - cotton, dissolution method for, 11C73
- Textiles—continued**
- detmn. of stability of hydroxymethylamide finishes on, by h.p.l.c., 12C63
- extraction of pesticides from, 8C80
- identn. of, by pyrolysis - g.c., 7C90
- identn. of fibres of, 12C65
- polyester - cotton, analysis of, by near-i.r. photoacoustic spectrometry, 6C53
- wool - synthetic blends, analysis of synthetic fibres in, 12C67
- Thallate, tetrabromo-**, detmn. of, ion-selective electrode in, 12J158
- Thallium**, detmn. of, alone or simultaneously with cadmium and lead, by stripping chronopotentiometry, 1J119
- 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- by a.a.s., non-resonance lines in, 9B93
- by a.a.s. of hydride, 8B49
- by anodic-stripping voltammetry or a.a.s., 12B60
- by extraction - spectrography, 4B59
- by graphite-furnace a.a.s., interference by chloride in, 10B17
- by n.a.a., measurement of characteristic X-rays in, 10B58
- by sub-stoichiometric isotope dilution, 8B50
- hexa-amminecobalt^{III} tricarboxylatocobaltate in potentiometric titrimetric, 9B66
- in biological materials, by isotope dilution - m.s., 12D27
- in blood, by porous-layer electrochemistry, 7D21
- urine and hair, by a.a.s., 12D35
- in cadmium, lead or zinc, by flameless a.a.s., 5B67
- in cement kiln dust and iron oxides, by anodic-stripping voltammetry, 4B75
- in human hair and in waste water, by graphite-furnace a.a.s., 12H95
- in human tissues, by a.a.s., 8D25
- in iron, iron ores and minerals, by a.a.s., pre-concentration for, 6B151
- in lead, by stripping voltammetry, 11B81
- in lead and its salts, by anodic-stripping voltammetry, 5B149
- in presence of iron, by titrimetry, 1B51
- in rocks and biological materials, by differential pulse anodic-stripping voltammetry, 12B61
- in selenium, by n.a.a., 4B130
- in semiconductor materials, by complexometry, 1B168
- in soil, by flameless a.a.s., 4G12
- in urine, by differential pulse anodic-stripping voltammetry and flameless a.a.s., 3D20
- chemical and by a.a.s., 12D34
- saliva and rain-water, electrode for, 9D28
- in waste water, by a.a.s., 8H96
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carboxylate, 7B44
- ion-selective electrode in, 3J107, 12J158
- lead electrodes in voltammetric, 11J140
- reagent systems for spectrophotometric, 11B10
- redox sub-stoichiometric, 8B51
- Rhodamine B in radiochemical, 1B50
- sample decomposition and pre-concentration in, review, 7B1
- detmn. of trace, by voltammetry, 7B58
- extraction of, β -diketones in solvent, 5B11
- with dithiocarbamates, 4B22
- luminescence of complex compounds of, 7B16
- sepn. of trace, from inorganic samples, by volatilization, 12B62
- Thallium compounds**, detmn. of trace dimethylthallium cations, by voltammetry, 7B58
- Thallium(I)**, sepn. of, from thallium^{III}, by t.l.c. of dithiocarbamate chelates, 6B76
- Thallium(III)**, sepn. of, from thallium^I, by t.l.c. of dithiocarbamate chelates, 6B76
- Thebaine**, detmn. of, in *Papaver bracteatum* Lindl., by g.l.c., 3E4
- in *Papaver bracteatum*, by t.l.c., 2E8
- in poppy capsules, by computerized t.l.c., 9E4
- Theobroma bicolor**, analysis of fat of, by t.l.c. and g.c., 11F42
- Theobromine**, detmn. of, by bromination and spectrophotometry, 5E6
- in cocoa and cocoa products, by t.l.c., 6F27
- in coffee and tea, colorimetric, 10E13
- in drinks and pharmaceuticals, by g.l.c., 8E16
- in serum and saliva, by h.p.l.c., 10D58
- Theobromine and sodium salicylate**, detmn. of moisture in, gas-dynamic, 11E2
- Theophylline**, detection of, by t.l.c., in study of stability of oxyethyl-theophylline soln., 8E17
- in horse urine, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
- detmn. of, by potentiometric titration, silver nitrate in, 6E15
- in biological materials, by liquid chromatography with short column, 1J25
- in blood, by automated fluorimetry or photometry, 4J10
- by fluoro-immunoassay, 1D43
- by h.p.l.c., 5D84
- interference by fluorescein in automated, 6D54
- in coffee and tea, colorimetric, 10E13
- in dried blood spots, by fluoro-immunoassay, 9D41
- in drinks and pharmaceuticals, by g.l.c., 8E16

Theophylline, detmn. of, —continued

- in pharmaceutical preparations, by g.l.c., 8E3
- by n.m.r., 3E8
- in plasma, by fluorescence immunoassay, 6D78
- by h.p.l.c., 5D42
- in serum, Abbott TDX system for stat, 11D38
- by competitive nephelometric inhibition immunoassay, 4D77
- by Du Pont *aca* method, 12D61
- by EMIT, stability of calibration graph in, 4D71
- by enzyme-multiplied immunoassay, centrifugal analyser in, 4D89
- by fluorescence immunoassay, 6D56
- by fluorescence polarization, interference in, 4D78
- by fluoro-immunoassay, 1D39
- with centrifugal analyser, 7D42
- by homogeneous immunoprecipitation, 2D50
- by h.p.l.c., 3D34, 4D74, 6D58, 10D60
- automated sample preparation and injection for, 4J19
- by immunoassay, interference in commercial methods of, 4A5, 4D75, 4D76
- by modified kit r.i.a., 10D59
- centrifugal analyser in, 4D10
- fluorescence polarization immunoassay analyser in, 7D45
- in serum and saliva, by h.p.l.c., 10D58
- in tablets, by spectrophotometry, 4E15
- with enzyme immuno-electrode system, 1J109
- , **8-chloro-**, detmn. of, in tablets, by extraction - flow-injection analysis, 5E45
- Thermal analysis**, applications of, review, 8J131
- computerized, 9J144
- coupled with m.s., computerized, 9J142
- data processing in, 9J145
- differential, instruments for, reference materials in calibration of, 8J133
- evolved-gas, of products of pyrolysis of tobacco, review, 8D12
- of minerals, non-dispersive i.r. detectors in, review, 8B127
- of polymers, volatilization in, review, 5C103
- review, 11J147
- , **gravimetric**, automated, proximate analysis by, 1C26
- computerized, 9J141, 9J143
- coupled with quadrupole m.s., 6J189
- in decomposition studies, with coulometric titration of evolved gases, 8J132
- instruments for, reference materials in calibration of, 8J133
- Thermal-wave imaging**, monitoring physical structure of multi-layered films by, 10C86
- Thermochemistry**, instrumentation and technique in, review, 4J176
- Thermolysis**, detection of, in polyacrylamide gels containing covalently bound substrates, 9D268
- Thermometers**, calibration of, succinonitrile triple-point standard in, 1J2
- Thiabenzazole**, detmn. of, in waste water, by h.p.l.c., 9H88
- identn. of, X-ray powder diffraction data for, 8E84
- Thiacetazone**, detmn. of, in blood plasma, urine and faeces, by h.p.l.c., 4D126
- in pharmaceutical preparations and biological fluids, review, 11E46
- 1,2,3-Thiadiazole**, m.s. of, 2C43
- Thiamine**, detmn. of, by amperometry, 1D195
- by h.p.l.c., 3D240
- in biological fluids, by h.p.l.c., 6D288
- in blood, by liquid chromatography, 7D229
- in cereal foods, inter-laboratory, 10F4
- in dosage forms, by flow-injection analysis with electrochemical derivatization, 8D224
- in lettuce, chicory and endive, 12F26
- in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31
- in multivitamin preparations, by h.p.l.c., 9E30
- in pharmaceutical preparations, molybdo-phosphoric acid in spectrophotometric, 11E19
- in pharmaceuticals food, urine and blood, by h.p.l.c., 5E29
- in presence of riboflavin, by oscillography, 5E28
- in rice flour, by h.p.l.c. - post-column derivatization, 8F22
- identn. of salts and phosphorus esters of, by i.r. spectrometry, 6E34
- m.s. of, after generation of ions by secondary-ion m.s., 9J115
- Thiamine phosphates**, detmn. of, in blood, by liquid chromatography, 7D229
- Thiamine pyrophosphate**, detmn. of, pCO₂-membrane electrode in enzymic, 5D228
- Thiamylal**, detmn. of optical purity of, by n.m.r. spectrometry, 8E65
- 1,2,3-Thiane, 5-dimethylamino-, hydrogen oxalate**, detmn. of, by t.l.c. - dual-wavelength scanning, 11C32
- 1,2,4,6,3,5-Thiatriazadiaphosphorine 1-oxide, 1,3,3,5,5-penta-aziridino-**, detmn. of, in serum, urine and ascites and pleural fluid, by g.l.c., 12D99
- , **1,3,3,5,5-penta-aziridyl-3,3,5,5-tetrahydro-**, detmn. of, in blood and urine, by g.l.c., 9D94
- Thiazole, 4-(17 β -androstan-17-yl)-**, sepn. of, from related compounds, by h.p.l.c., 9D53
- , **5-(2-hydroxyethyl)-4-methyl-**, detmn. of, by h.p.l.c., 3D240
- Thiazolidine, 3-[di-(1-aziridinyl)phosphinoyl]-2-methyl-**, detmn. of, by cerimetry, 4C50
- Thiazolidine-4-carboxylic acid, 2-(α -ethoxycarbonylbenzyl)-**, detmn. of, by cerimetry, 9C44

Thiazolidine-4-carboxylic acid—continued

- , **(2R,4R)-2-(2-hydroxyphenyl)-3-(3-mercaptopropionyl)-**, detmn. of, in blood, by h.p.l.c., 9D88
- Thickeners**, detmn. of, in food, by electrophoresis, 4F12
- in milk products, by g.l.c., 8F11
- Thin films**, analysis of, by Raman scattering and Auger spectroscopy, 5B47
- Thioacetamide**, detmn. of, by catalysis of bromopyrogallol red - hydrogen peroxide reaction, 11C14
- Thiocyanate**, detection of, by h.p.l.c., ion-selective electrodes in, 4J33
- detmn. of, after sepn. from other sulphur anions by ion chromatography, 11B104
- as pentafluorobenzyl derivatives, by g.c., 6B24
- 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- by argentometry, indicator for, 4B23
- electrode for, 12J154
- germanium sulphide in molecular-absorption spectrophotometric, 3B72
- in ground water, by h.p.l.c., 1H36
- in metal complexes, by titrimetry with *NN*-dibromobenzenesulphonamide, 4B100
- in presence of cyanide, kinetic spectrophotometric, 6B93
- in serum and lysed blood-cell concentrates, spectrophotometric, 6D133
- in silver-plating soln., by potentiometric titrimetry, 3B36
- in soil, by h.p.l.c., 10G9
- sepn. of, from chloride and iodide, by ion-pair h.p.l.c., electrochemical detector for, 8J37
- from ferri- and ferro-cyanide, by ion exchange on hydrated tin^{IV} oxide, 10B143
- Thiocyclam**, detmn. of, in water, plants and soil, by t.l.c., 2H63
- Thiofanox**, detmn. of, and its metabolites, in sugar-beet leaves and aphid feeds, by t.l.c., 12G15
- Thioglucosidase**, assay of, coupled enzymic, 7D252
- in soil, by colorimetric detmn. of allyl isothiocyanate, 6G13
- Thiolactams**, detmn. of, 4-(2-pyridylazo)resorcinol and copper^{II} in spectrophotometric, 10C49
- 3-Thiolene 1,1-dioxide**, detmn. of chlorination products of, in aliphatic alcohols and acids, by g.c., 10C13
- Thiols**, detmn. of, by coulometric titration with iodine, 5C35
- by h.p.l.c., fluorogenic reagents for detection in, review, 10D15
- reagent for post-column reaction in, 11D116
- by ion-exchange chromatography with post-column derivatization, 4D214
- by titrimetry, review, 8C22
- in crude petroleum, by g.c., 3C46
- in soil, colorimetric, 12G3
- detmn. of volatile, in natural gas and town gas, potentiometric, portable instrument for, 11C35
- sepn. of, by liquid chromatography, 4D227
- Thiomalate**, detmn. of, in plasma and urine, by h.p.l.c., 3D77
- Thiomersal**, detmn. of, in aq. and saline soln., by h.p.l.c., 8E74
- in pharmaceutical preparations, by a.a.s., 4E62
- Thionyl fluoride**, detmn. of, in sulphur hexafluoride, by g.c., 3B75
- Thiopentone**, detmn. of, in biological materials, by h.p.l.c., 3D64
- in plasma, by h.p.l.c., 4D111
- in serum, by g.c., 8D60
- by h.p.l.c., 1D47
- Thiophene**, detmn. of, in benzene, by cryometric analysis, 4A31
- , **tetrahydro-**, detmn. of, in water and soil, by head-space g.c. - m.s., 12H90
- Thiophenecarboxylate**, m.s. of, 2C43
- Thiophenecarboxylic acid**, m.s. of, 2C43
- Thiophenediones**, m.s. of, 2C42
- Thioridazine**, detmn. of, in plasma, by high-performance t.l.c., 8D52
- in urine, by oxidation in aq. and nitromethane soln., 5D54
- with its metabolites, in plasma, by h.p.l.c., 2D79
- Thiosulphate**, detection of, in ion chromatography, 7J47
- detmn. of, after sepn. from other sulphur anions by ion chromatography, 11B104
- 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- by potentiometric titration with iodate, 8B93
- in processed photographic paper, by colorimetry, 8C97
- titrimetric, by reaction with periodate, 11B103
- sepn. of, from other anions, by ion chromatography, optimization of non-suppressed, 8B16
- prediction of retention in non-suppressed, 8B17
- Thiourea, N-allyl-**, detmn. of, by catalysis of bromopyrogallol red - hydrogen peroxide reaction, 11C14
- , **N-methyl-**, detmn. of, by catalysis of bromopyrogallol red - hydrogen peroxide reaction, 11C14
- Thioxanthone, 2-chloro-**, detmn. of, by high-performance t.l.c., 10E23
- Thiphenamil**, detection of, in biological fluids, by t.l.c., 5D80
- detmn. of, extraction - spectrophotometric, 11E40
- Thiram**, detmn. of, by spectrophotometric of evolved carbon disulphide, 4G37
- in grain, spectrophotometric, 12G11
- Thorium**, detmn. of, after sepn. from lanthanoids, by spectrophotometry, 6B88

Thorium, detmn. of, —continued

- arsenazo III in spectrophotometric, interference by titanium in, 9B77
 asymmetric bisazo-derivatives of chromotropic acid in spectrophotometric, 9B67
 by XRF spectrometry, 4B83
 in bauxite and coal ash, by epithermal n.a.a., 8B47
 in biological materials, water, soil or sediment, 1H28
 in environmental materials, 5H2
 in geological materials, by XRF, 9B79
 in lake water polluted with uranium-mine tailings, interference in, 11H39
 in minerals, by spectrophotometry, 5B106
 in ores, by extraction chromatography - spectrophotometry, 10B71
 by ion-exchange chromatography, 4B85
 in rare-earth-metal mixtures, spectrophotometric, 10B60
 in red mud, review, 1B47
 in rocks, by epithermal n.a.a., 5B107
 by spectrography, 1B8
 by XRF, 9B82
 in rocks and ores, by XRF, 7B66
 in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
 segmentation in ring-oven fluorimetric, 9J105
 titrimetric, 11B53
 detmn. of trace, in phosphoric acid, by ICP a.e.s., interference in, 11B93
 detmn. of trace impurities in soln. of, by flameless a.a.s., 7B69
 extraction of, from carbonate soln., alkylcatechol in, 5B126
 from nitric acid soln., with tri-isoamyl phosphate, 11B54
 2-hydroxy-3-isopropyltropone and neutral donors in synergic, 10B68
 sepn. of, by ion-exchange chromatography, sorption on hydrous tin oxide in relation to, 3B61
 by solvent extraction, Aliquat 336 in, 2B41
 from lanthanum, by ion flotation, 4B86
 from other metals, by cation-exchange chromatography, 4B84
 by liquid chromatography with hydroxamic acids as stationary phases, 5J26
 from other radio-tracers, by paper chromatography, 4B21
 from zirconium, 4-bromomandelic or benzoic acid in, 8B58
 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione in, 2B36
Thorium-230, sepn. of, from radium-226, by pptn., 11B33
Thorium-234, sepn. of, by co-pptn. with barium sulphate, effect of potassium ions on, 5B108
Thorium nitrate, detmn. of radium-228 in, by liquid-scintillation counting and γ -ray spectrometry, 6B57
Threonine, detmn. of, by polarography of 2,4,6-trinitrophenyl derivatives, 9D178
Thromboxane, detmn. of, in biological materials, by g.c. - m.s., 6D166
 review, 11D134
Thromboxane B₂, detmn. of, by g.c. - m.s. of pentafluorobenzyl ester dimethyl(propyl)silyl ether derivatives, 12D124
 in alveolar macrophages, by g.l.c., 12D125
 in biological fluids, 9A1B
 in plasma, by enzyme immunoassay, 3D108
 in urine, by h.p.l.c. and r.i.a., 11D132
 sepn. of, by t.l.c., plates for, 4D165
 from prostaglandins, by h.p.l.c., 11D135
 by reversed-phase liquid chromatography, 8D122
Thromboxanes, detmn. of metabolites of, in biological materials, by t.l.c., 2D140
Thulium, detmn. of, by a.a.s., intra-cavity laser apparatus for, 7B59
 sepn. of, from erbium oxide, by ion exchange, 5B103
 from other heavy lanthanoids, by ion-exchange chromatography, 10B66
 sepn. of radiotracers of, by h.p.l.c., 10B19
 spectrometry of complexes of iodide of, with 18-crown-6, 12B68
Thulium oxide, detmn. of dysprosium in, by luminescence method, 10B67
Thymidine, detmn. of, by h.p.l.c., after derivatization with 4-bromomethyl-7-methoxycoumarin, 6D281
 by spectrophotometry, diphenylamine in, 5D217
 sepn. of, by h.p.l.c., 2D221
 —, 5'-monophosphate, sepn. of, by h.p.l.c., 2D221
Thymidine phosphorylase, assay of, in tissues, by h.p.l.c., 3D257
Thymine, detmn. of, by ion-exchange chromatography, 6D277
 detmn. of dimers containing, in u.v.-irradiated human cells, by h.p.l.c., 7D216
 sepn. of dimers of, in short oligonucleotides, by h.p.l.c., 10D231
Thymol, detmn. of, hydrogen peroxide and peroxidase in spectrophotometric, 10C33
 in pharmaceuticals, by spectrophotometry, 6C20
Thymopoietin, detmn. of bovine, in serum, by r.i.a. and ELISA, 12D175
Thymosin α_1 , detmn. of, by dissociation micro ELISA, 8D182
Thymus, detmn. of histones in calf, by electrophoresis, staining of gels for, 7D195
Thyroglobulin, detmn. of, by direct potentiometry, 7D186
 in serum, immunoassays for, 8D204
Thyroid, identn. of, in pharmaceutical preparations, 2E21
Thyroid gland, detmn. of iodine in, by radioactive-implant-induced X-ray emission, 10D45
 detmn. of methylthiouracil in bovine, by high-performance t.l.c., 7D95

- Thyroid hormones**, detmn. of, by g.l.c. - e.c.d., internal standard for, 12D182
 by g.l.c. of perfluoroacyl derivatives, 12D183
 in pharmaceutical preparations, 9A2B
Thyronine, detmn. of, in urine, by g.c. - m.s., 11D172
 —, tri-iodo-, detmn. of, by r.i.a., 6D221
 review, 6D222
 in human milk, by r.i.a., 3D153
 in plasma and serum, by r.i.a., 3D152
 in presence of Fluosol-DA, by r.i.a., 1D6
 in serum, adsorbents for, 1D147
 by r.i.a., aq. two-phase sepn. system for, 4D228
 by r.i.a. and equilibrium dialysis, 12D171
 with automated analyser, inter-laboratory, 2D180
 detmn. of free, in serum, by r.i.a., kits for, 9D189
 detmn. of total, in hyper- and hypo-thyroid patients, 10D174
 —, 3,3',5-tri-iodo-, detmn. of, in pharmaceutical preparations, 9A2B
 detmn. of free, in serum, by r.i.a., interference by autoantibodies in, 8D173
Thyrotrophin, detmn. of, by immunoradiometry, enhanced sensitivity of, 7D193
 by r.i.a., characteristics of radio-label for, 4D259
 review, 6D222
 with immobilized antibody, 5D5
 by r.i.a. and immunoradiometric assay, 1D158
 in blood of new-born babies, by r.i.a., quality control of, 6D246
 in pharmaceutical preparations, 9A2B
 in serum, by r.i.a., 4D257
 inter-laboratory study of, 2D195
 kits for, 9D215
 r.i.a. kit for, 10D199
 purification of, by h.p.l.c., 5D210
 stability of, in dried-blood spots, effect of temp. on, 1D176
Thyroxine, detmn. of, 6D223
 by r.i.a., review, 6D222
 in human milk, by r.i.a., 3D153
 in pharmaceutical preparations, 9A2B
 in plasma, reliability of kits for, 1D144
 in presence of Fluosol-DA, by r.i.a., 1D6
 in serum, accuracy of r.i.a. kit for, 3D154
 autoantibody interference in kit for, 10D175
 by isotope dilution - mass spectrometry, 7D177
 by r.i.a., aq. two-phase sepn. system for, 4D228
 interference by auto-antibodies in, 1D145
 inter-laboratory study of, 2D195
 by r.i.a. and equilibrium dialysis, 12D171
 by r.i.a. with ethacridine, 6D224
 by "unbound analogue" r.i.a., 1D146
 effect of heparin on kits for, 11D178
 SPIRIA kit in, 12D170
 validity of Amerlex FT₄ assay, 4D230
 in serum and plasma, by r.i.a., 3D151
 kits for, interference by binding proteins in, 10D173
 with automated analyser, inter-laboratory, 2D180
 detmn. of free, Amerlex FT₄ kit in, 9D190
 errors in, 3D9
 in serum, by r.i.a., kit for, 4D229
 by solid-phase immunoassay, 12D172
 inaccuracy of kit for, 10D172
 kits for, 1D143
 detmn. of hormones derived from, by h.p.l.c., 5D176
 detmn. of total, in hyper- and hypo-thyroid patients, 10D174
 detmn. of unbound, in serum or plasma, effect of sample dilution on, 8D142
 enzyme immunoassay of, interference of protein-binding inhibitors in, 5D183
Thyroxine sodium, detmn. of, in tablets, by h.p.l.c., 6E32, 9E25
Thiamendine hydrochloride, detmn. of, in tablets, by h.p.l.c., 8E70
Tiazofurin, detmn. of, in urine or plasma, by h.p.l.c., 2D108
Ticlopidine, detmn. of, and metabolites, by h.p.l.c. with on-line diode array spectrophotometric detection, 3D75
Timolol, detmn. of, in plasma and human milk, by h.p.l.c., 8D66
Tin, assessment of purity of, by differential scanning calorimetry, 1J122
 detection of, in gas phase, review, 9H1
 detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
 by a.a.s., 1B73
 by a.e.s., source in, 5J94
 by a.f.s., 6J145
 by flame atomization, 11J85
 by ICP a.e.s., 6B98
 with hydride generation, 5J102
 by reactor n.a.a., interference in, 5B146
 by spectrophotometry, review, 4B110
 by spectrophotometry with 2,6,7-trihydroxy-9-(2-nitrophenyl)xanthen-3-one and cationic surfactants, 5B145
 fluorimetric, surfactants in, 8B14
 in air, by PIXE, 10H3
 water, soil or plants, by t.l.c., 6H4
 in aluminium alloys, by a.c. polarography, 1B44

Tin, detmn. of.—*continued*

- in antimony, by spectrophotometry, 6B117
- in beer, by a.a.s., 8F58
- in biological materials, by anodic-stripping voltammetry, 7D30
- in biological tissues, by a.e.s., optimization of volatilization in, 5D37
- in canned fish, by a.a.s., 7F46
- in canned foods, by a.a.s., 6F8
- in chlorostannates, by a.a.s., 2B53
- in copper alloys, by γ -activation spectrometry, 4B47
- quercetin in spectrophotometric, 7B30
- in float glass, by chemical methods and XRF, 5B281
- in fresh and sea-water, by a.a.s., 3H44
- in geological samples, by electrothermal a.a.s., 7B78
- in gold and silver, by polarography, 1B29
- in lead, by a.a.s. after pptn. with iron^{III} hydroxide, 10B88
- in minerals, by XRF spectrometry, 6B99
- in minerals and alloys, by titration or a.a.s., 7B77
- in natural water, by a.a.s. or flame photometry, 8H60
- in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
- in ores, by XRF, comparison of radioisotope-source analysers for, 4B111
- Triton X-155 in oscillopolarographic, 12B87
- in ores and alloys, by difference chelatometric titrimetry, 12B88
- in organosilicon compounds, by a.a.s., 4C33
- in siliceous ores, by spectrophotometry, reagent for, 4B109
- in silver - tin alloy, by X-ray micro-probe analysis, 4B56
- in soft drinks, by potentiometric stripping analysis, 4F68
- in soil, by oscillopolarography, 7G16
- in steel, by spectrophotometry, 2B71
- in sterilized canned milk, by spectrophotometry or a.a.s., 10F41
- in synthetic sea-water, by ICP a.e.s., 7B17
- in triuranium octaoxide, by a.a.s., 4B97
- in waste water, by stripping voltammetry, 5H89
- by XRF, 5H92
- in zinc casting alloy, by a.a.s. after co-pptn. by hexahydroazepinium hexahydroazepine-1-carbodithioate, 7B44
- detmn. of aluminium in, by luminescence, 3B47
- detmn. of cadmium in, by stripping voltammetry, 6B75
- detmn. of indium in, reagents for spectrophotometric, 6B74
- detmn. of lead in, spectrophotometric, 7B45
- detmn. of trace, in pig-iron, by hydride-generation a.a.s., 12B145
- extraction of, from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
- with dithiocarbamates, 6B22
- sepn. of, from aq. soln., ion-exchange sorbent for, 12B43
- from other metals, by extraction chromatography, 5B147
- sepn. of oxidation states of, by t.l.c., 3B20
- spectrophotometric study of mixed-ligand complexes of, 6B100
- , **butyl-**, detmn. of, by g.c. - a.a.s., 3C35
- , **dialkyl-, chloride**, detmn. of, in tissues, by h.p.l.c., 3D81
- , **methyl-**, detmn. of, in natural water, by a.a.s. or flame photometry, 8H60
- , —, **chloride**, detmn. of, in tissues, by g.l.c., 12D107
- , **tetramethyl-**, detmn. of, in tissues, by g.l.c., 12D107
- , **tributyl-**, detmn. of, in waters and sediments, by g.l.c. and g.c. - m.s., 11H59
- , **tripropyl-, chloride**, detmn. of, in natural water and sediment, by g.c., 9H77
- Tin alloys**, detmn. of mercury in, thiocyanate in titrimetric, 2B30
- detmn. of silver and tin in, by X-ray micro-probe analysis, 4B56
- detmn. of tin in, by titration or a.a.s., 7B77
- Tin compounds**, detmn. of organic, by h.p.l.c. with chemical reaction detection, 12C25
- by h.p.l.c. - flame a.a.s., 6C17
- in urine, by purge-and-trap g.c. - flame photometry, 7D100
- Tinidazole**, detmn. of, in tablets, spectrophotometric, 9E52
- in urine and blood, by g.l.c., 9D91
- Tin ores**, detmn. of rare-earth metals in concentrates of, by extraction - spectrophotometry, 8B70
- detmn. of tantalum in, by spectrophotometry, 7B79
- detmn. of tin in, by XRF, with radioisotope sources, 4B111
- Tin oxide, dicyclohexyl-**, detmn. of, in air, water, soil or plants, by t.l.c., 6H4
- Tiodosin**, detmn. of, in tablets, by h.p.l.c., 5E43
- Tiopronin**, detmn. of, in pharmaceutical preparations, by spectrophotometry, 1E42
- Tiquizium bromide**, detmn. of, in serum and urine, by h.p.l.c., 10D98
- Titanium**, detmn. of, as impurity in ion-exchange resin, photometric, 6B102
- beryllon III in spectrophotometric, 9B96
- biacetyl monoxime nicotinoylhydrazone in fluorimetric, 12B92
- by complexometry, 7B15
- by reduction - coulometry, 6B103
- by spectrography, effect of zirconium on, 5B202
- by spectrophotometry, 5B152
- reagents for, 1B77, 5B151
- by spectrophotometry with SNAZOXS and peroxide, 5B154
- by K X-ray spectrometry, 6B104
- N-(4-chlorophenyl)pivalohydroxamic acid in spectrophotometric, 7B81

Titanium, detmn. of.—*continued*

- cinnamohydroxamic acids in spectrophotometric, 2B4
- ethyl 4-cyano-5-(3,4-dihydroxyphenylazo)-3-methylthiophene-2-carboxylate in spectrophotometric, 11B42
- in alloys, by spectrophotometry, reagent for, 4B116
- in aluminium, by ICP a.e.s., 6B69
- in apatite - nepheline ores, by γ -activation analysis, 3B108
- in aq. and acid soln., h.f. generator with argon plasma for, 4J124
- in biological tissues, by ICP a.e.s., 12D39
- in bone, by ICP a.e.s., 2D10
- in coal, by differential pulse polarography, 8B132
- by XRF, 2B87
- in ferrotitanium, by complexometric titration, 6B157
- in fly ash, by ICP a.e.s., 12J99
- in geological materials, by n.a.a., 11B82
- by XRF, 4B192
- in glass sand and silica brick, by spectrophotometry, data reduction and calibration for, 2A17
- in granites, amplites and amphibolites, by a.a.s., 5B155
- in high-purity inorganic compounds, kinetic, 6B18
- in indium phosphide, by proton-activation analysis, 12B186
- in industrial and environmental materials, by spectrophotometry, 7B82
- in niobium oxide - tantalum oxide mixtures, by XRF sequence spectrometry, 5B184
- in ores, by a.a.s., 1B76
- in phosphate rock reference material, 5A16
- in pig iron, by ICP a.e.s., 12B146
- in platinum, by spectrography, after electrolytic sepn., 2B83
- in red mud, review, 1B47
- in silicate rocks, by spectrophotometry, 5B141
- in soil, by XRF, 4J92
- in steel, reagent for spectrophotometric, 6B159
- in strontium titanate, complexometric, 7B160
- in titanium - vanadium alloys, by spectrophotometry, 5B150
- in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
- salicylfluorone in spectrophotometric, 8B73
- segmentation in ring-oven fluorimetric, 9J105
- simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15
- detmn. of chloride in, ion-selective electrode in, 5B156
- detmn. of gases in, review, 10B1
- detmn. of niobium in, fluorimetric, 10B111
- detmn. of nitrogen in, certification in, 12B97
- detmn. of trace, by differential pulse polarography, 5B153
- extraction of, as mixed-ligand complexes with hydroxamic acids, 6B105
- from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
- from sulphuric acid soln. also containing iron^{III}, 12B93
- pre-concentration of, by sorption on ferric oxide, 5B19
- sepn. of, from thorium, uranium and zirconium, by extraction chromatography, 10B71
- , **bis-(η^5 -1,2,3,4,5-pentamethylcyclopentadienyl)-, dichloride**, sepn. of, by h.p.l.c., 5C52
- Titanium alloys**, detmn. of mercury in, by a.a.s., 2B54
- detmn. of molybdenum, vanadium, chromium, aluminium, iron and yttrium in, by ICP a.e.s., 12B94
- detmn. of molybdenum in, extraction - voltammetric, 10B90
- detmn. of vanadium in, by spectrophotometry with chlorosulphophenol S, 5B181
- Titanium chloride (TiCl₄)**, detmn. of sulphur in, by reaction - g.c., 12B96
- detmn. of total carbon in, by g.c., 12B95
- Titanium nitride**, analysis of thin films of, by Rutherford back-scattering, 5B5
- Titanium oxide**, detmn. of, in iron-ore concentrates, by XRF, 11B130
- in silicate materials, by spectrophotometry, 5B138
- detmn. of aluminium in, by a.a.s., 10B89
- detmn. of lead in, by anodic-stripping voltammetry, 5B157
- detmn. of niobium and tantalum in, by spectrophotometry with polyhydric phenols, 5B158
- detmn. of trace elements in, by emission spectrometry, device for, 3B5
- Titanium oxides**, analysis of, by laser micro-probe, for study of stoichiometry, 4B115
- Titanium oxychloride**, identn. of, in titanium^{IV} chloride, by gel-permeation chromatography, 3B65
- Titanium tetrachloride**, identn. of titanium oxychloride in, by gel-permeation chromatography, 3B65
- Titration**, redox, of organic compounds, potassium permanganate in, 10C1
- Titrimetry**, apparatus for, computer-controlled, 12J4
- catalytic thermometric, review, 4A10
- in analysis of drugs and surfactants, review, 7E1
- non-aqueous, 1,4-dihydroxyanthraquinone as acid - base indicator in, 11A13
- of carbonate, calculation of equivalence-point in, 12B80
- pH-stat, automated, 3J120
- model for, 8A10
- potentiometric, non-aqueous, of weak acids, 6A7
- redox reagents in non-aqueous, review, 11A15
- ring - disc electrochemical, of proteins with bromine or hypobromite, 11D191

Titrimetry—continued

- serial analysis in, improved accuracy of, 1J10
- , **complexometric**, detmn. of metals by, simultaneous, without masking agents, 7B6
- 1,2-diaminocyclohexanetetra-acetic acid as titrant in, review, 6A6
- EDTA and cyclohexanediaminetetra-acetic and diethylenetriam-inepenta-acetic acids as reagents for, 9A16
- , **coulometric**, cerimetric, in acetic acid in presence of sodium perchlorate, 10A11
- of heavy metals, with EDTA, cell for, 7B42
- reagent for, 7A9
- , **oscillopolarographic**, review, 3J119
- , **potentiometric**, acid - base, computerized three-dimensional plotting in, 11A29
- tantalum electrode for, in molten potassium nitrate, 12J174
- aluminium sensors in, 12J173
- applications of controlled-potential pulsed-current technique in acid - base, pptn. and redox, 11J145
- 1-bromo-3-chloro-5,5-dimethylhydantoin as titrant for, 9A17
- computer-based analyser for, 5J192
- microprocessor system for automated, 8J130
- on-line data acquisition in, 3A19
- precision of isovalent ion-combination, with data handling by non-linear regression, 5A43
- redox, computerized three-dimensional plotting in, 11A30
- stationary mercury-drop electrode for analysis of single-component systems by, 11J146
- weighting of data in, 3A20
- , **thermometric**, indicator for iodimetric, 3A8
- , **weight**, in analysis of silver foil, 12J5
- Tobacco**, analysis of, by near-i.r. reflectance spectrometry, 5J116
- analysis of products of pyrolysis of, evolved-gas, review, 8D12
- detmn. of aldibar in, by h.p.l.c., 3G20
- detmn. of calcium in, 1,3-bis-(2-pyridylmethyleneamino)urea in spectrophotometric, 9B36
- detmn. of dithiocarbamate residues in, by spectrophotometry, 6G30
- detmn. of moisture in, in presence of moisturizers, 7G11
- detmn. of neutral sugars in leaves of, by g.l.c., 11D120
- detmn. of nicotine and cotinine in extracts of leaf of, by h.p.l.c., 12D159
- detmn. of *N*-nitrosomonicotinic in, by g.c., 1D76
- detmn. of *N*-nitrosoproline in, by g.c., 1D75
- detmn. of starch, pectin, lignin, hemicellulose and cellulose in, 1D79
- detmn. of starch in, enzymic, 1D85
- detmn. of trace elements in, by n.a.a., 1D8
- detmn. of trace elements in Indian, by n.a.a., 5D11
- detmn. of α,β -unsaturated compounds formed from burning, by pyrolysis - g.c., 11D115
- identn. of carotenoids in leaves of, by h.p.l.c., 7D206
- sampling of, for collaborative studies, 4G4
- Tobacco smoke**, analysis of, review, 8D11
- detection of fatty acids in, by g.l.c., 6J101
- detmn. of carbonyl compounds in, by hydrazone derivatization - h.p.l.c., 8D112
- detmn. of nickel tetracarbonyl and iron pentacarbonyl in, by FT i.r. spectrometry, 2D48
- detmn. of pesticides in, by t.l.c., 5D112
- detmn. of quinoline, isoquinoline and methylquinolines in, by g.l.c., 8D157
- sampling of organic compounds in gas phase of, before g.c., 4D141
- Tobramycin**, detmn. of, in blood, by automated fluorimetry or photometry, 4J10
- in dosage forms, by spectrophotometry of dihydrolutidine derivatives, 8E36
- in fermentation broth, by h.p.l.c., 8E40
- in presence of Fluosol-DA, by r.i.a., 1D6
- in serum, by automated h.p.l.c., 9D50
- by EMIT, 6D66
- by fluoro-immunoassay, 1D39
- by homogeneous immunoprecipitation, 2D50
- centrifugal analyser in, 4D10
- stability of, in presence of β -lactam antibiotics, 9D49
- Tocainide**, detmn. of enantiomers of, in plasma, by g.l.c., 11D91
- α -Tocopherol**, detmn. of, in blood, by h.p.l.c., 12F22
- in cheese, by h.p.l.c., 2F30
- in erythrocytes, by h.p.l.c., 4D293
- in plasma, by h.p.l.c., antioxidants in, 6D285
- in rat tissue, by g.c. - m.s., 10D244
- in serum, indirect spectrophotometric, 10D245
- sepn. of, from α -tocopherylquinone and dimeric α -tocopherol, by reversed-phase h.p.l.c., 12D221
- γ -Tocopherol**, detmn. of, in erythrocytes, by h.p.l.c., 4D293
- in plasma, by h.p.l.c., antioxidants in, 6D285
- Tocopherols**, detmn. of, in adipose tissue, by h.p.l.c., 3D238
- in erythrocytes and plasma, by h.p.l.c., 11D222
- in fats, by h.p.l.c., 11C56
- in fats and oils, by capillary g.c., 3F34
- in unsaponifiable fraction of lupin oil, by g.c. and h.p.l.c., 9F56
- α -Tocopherylquinone**, detmn. of, in erythrocytes and plasma, by h.p.l.c., 11D222

 α -Tocopherylquinone—continued

- sepn. of, from α -tocopherol and its dimer, by reversed-phase h.p.l.c., 12D221
- Tocotrienols**, detmn. of, in fats, by h.p.l.c., 11C56
- Toe-nails**, detmn. of lead and nickel in, by electrothermal a.a.s., 7D31
- detmn. of methylamphetamine and amphetamine in, by g.c. - m.s., 6D102
- Tolazamide**, detmn. of, in pharmaceuticals, by n.m.r. spectrometry, 4E59
- Tolbutamide**, detmn. of, in tablets, by t.l.c., 3E49
- Tolmetin**, detmn. of, in plasma, by g.l.c., 6D82
- Toluene**, detmn. of, by g.c., after adsorption and partial desorption, 7C31
- in air, by g.c., 4H41
- by g.l.c., 3H17
- piezoelectric crystal detector in, 4H38
- in blood, by g.c., 1D72
- in insulating materials, by dynamic head-space g.c., 5C111
- detmn. of ethylbenzene and xylenes in, by g.c., 2C26
- detmn. of residual, in oils and waxes, by g.l.c., 5C73
- sampling of, in air, 4H40
- by sorption on activated carbon, 4H39
- sepn. of, by g.c. on sodium and copper sulphates, 3C26
- , **bromo-**, sepn. of isomers of, by g.l.c., liquid-crystal stationary phases for, 8J58
- , **α -chloro-**, detmn. of, in trialkylbenzylammonium chloride, by potentiometric titrimetry, 1C16
- , **4-chlorotrifluoro-3,5-dinitro-**, detmn. of, in aq. soln., by polarography, 5G30
- , **dinitro-**, detmn. of, by linear-sweep voltammetry, 5C116
- , **o,o,4-tetrachloro-**, detmn. of, in waste water, 6H100
- , **2,4,6-trinitro-**, detmn. of, by linear-sweep voltammetry, 5C116
- Toluene derivatives, nitro-**, detmn. of, by g.c. and g.c. - m.s., 2C79
- Toluene-2,5-diamine**, detmn. of, in hair dyes, by h.p.l.c., 7C85
- Toluene-2,6-diamine**, detmn. of, in hair dyes, by h.p.l.c., 7C85
- Toluene-*o*-sulphonamide**, detmn. of, in saccharin, by h.p.l.c., 4F11
- Toluenesulphonamides**, detmn. of, in saccharin, by h.p.l.c., 11E55
- p*-Tolidine**, detmn. of, in C. I. Pigment Reds 57 and 57:1 by reversed-phase h.p.l.c., 12E64
- o*-Tolidine, 4-chloro-**, detmn. of, in urine and faeces, by h.p.l.c., 5D107
- Tolidines**, sepn. of, by h.p.l.c. on acetylated cyclodextrin, 3C30
- Tomatoes**, detmn. of ethephon in, by g.l.c., 2F37
- detmn. of iron, chromium, manganese and zinc in, by a.a.s., 12F28
- detmn. of lipid peroxidation in powdered, by g.l.c. of TMS derivatives, 10F52
- detmn. of manganese in leaves of, by sub-stoichiometric isotope-dilution analysis, 10D46
- detmn. of metalaxyl in, by g.l.c., 4G36
- detmn. of organophosphorus insecticides in, automated, 5F39
- detmn. of phenomene in plants of, by h.p.l.c., 11G6
- detmn. of propineb and 4-methylimidazolidine-2-thione in, 8G14
- detmn. of pyrethroids in leaves and fruit of, by t.l.c., 2G24
- detmn. of sodium in, by ion chromatography, 5F2
- Tomato juice**, detection of ascorbic acid in, "sandwich"-indicator stick for, 3F24
- detmn. of sodium in, by ion chromatography, 5F2
- Tomato products**, detmn. of iron, chromium, manganese and zinc in, by a.a.s., 12F28
- Tomography**, in surface analysis, nuclear micro-probe in, 2J99
- Toothpaste**, detmn. of copper in, spectrophotometric, 12C59
- detmn. of low-mol.-wt. compounds in, by g.c., head-space or split injection in, 11J53
- detmn. of phenols in, by h.p.l.c., 11C57
- detmn. of saccharin in, by t.l.c., 5C93
- detmn. of uranium in Indian, by fission-track method, 12C58
- Toxicological analysis**, by g.c., developments in column technology for, review, 7J58
- concn.-dependent retention behaviour in, 3D12
- databases of results of and methods for, 7D6
- detmn. of drugs in, by liquid chromatography, 7D58
- errors in, 4D17
- in biological monitoring of occupational exposure to toxic chemicals, review, 10D5
- of environmental materials, review, 7H1
- systematic, mean list length approach in, 8D5
- Trace analysis**, 4H87B
- by h.p.l.c., with peak-compression sampling with micro-bore loops and columns, 7J19
- enrichment technique for organic, 2J1
- enrichment techniques for inorganic, 4J14B
- ion-selective electrodes in, 6B3
- sulphide sorbent for concn. in, 6B2
- Trace elements**, concn. of, by complexation with tiron and anion exchange, 5B23
- on synthetic fibres, 6B5
- detmn. of, *in situ*, review, 8B6
- by atomic spectroscopy, review, 5B6
- by deuterium-activation analysis, 4B11
- by hollow-cathode-discharge electrothermal a.e.s., 9J101
- by ICP a.e.s., 1J73
- selective volatilization in, 12J96
- by laser photo-ionization, 11B4

Trace elements, detmn. of, —continued

- by m.s. with ICP source, 4J153
- by n.a.a., multi-element standard for, 6A3
- by PIXE with isotope-source implantation, 9J80
- by secondary-ion m.s., review, 1J91
- by sorption - spectrophotometry, anion exchanger for, 1B19
- by stepwise photo-ionization, 5B3
- by XRF, 4B14
 - improved detection in, 10B7
- in aerosol particulates and biological tissues, by PIXE, 11J84
- in air, by XRF, 12H15
- in air-borne dust, by n.a.a. and a.a.s., 10H10
 - by spectrography, collection system for, 7H11
- in algae, by PIXE, 11D13
- in alumina, bomb for dissolution in, 12B59
- in aluminium foil, by n.a.a., 5B81
- in arsenic, by a.a.s., 6B115
- in ash, slag and waste water from magnetohydrodynamic combustion of coal, by thermal n.a.a., 5B277
- in biological materials, 6D24
 - by a.a.s., 12D12
 - by n.a.a., 4D24
 - by PIXE and instrumental n.a.a., 7D17
 - open wet-ashing method in, 11D18
- in biological tissues, by secondary-ion m.s., 5D12
- in blood, by instrumental n.a.a., 8D13
- in blood and hair, by a.e.s., 2D8
- in blood serum, by ICP a.e.s., 12D13
- in bone, by ICP a.e.s., interference by calcium in, 3D25
- in coal, by a.a.s., 12B176
- in cobalt, by proton-activation analysis, 11B148
- in copper indium disulphide, 11B167
- in cottonseed oil, by a.a.s., 8F66
- in crude oil, by n.a.a., 6C37
- in environmental materials, methods and computer program for, 12H4
- in erythrocytes, by ICP a.e.s., 5D19
- in finger-nails, by PIXE, 11D12
- in food, by a.a.s., a.e.s., XRF, n.a.a., polarography and voltammetry, review, 12F1
 - by polarography or voltammetry, review, 2F2
- in gallium arsenide semiconductors, by visible-light-induced luminescence, 9B188
- in gasoline and diesel oil, by n.a.a., 3C47
- in geological samples, by flameless a.a.s., 5B269
- in grape juice, by spectrophotometry, a.a.s., potentiometry or flame photometry, 12F23
- in hair, by n.a.a., occupational exposure in relation to, 4D27
 - by PIXE, 11D11
- in human milk, by XRF, 9D16
- in indium phosphide, by proton-activation analysis, 12B186
- in iron and steel, by a.a.s., review, 11B131
- in iron minerals and agglomerates, by XRF, 8B115
- in iron ores, 8B117
- in lake water, by instrumental n.a.a., 12H46
- in lanthanoid oxides, by spectrography, pre-concentration procedure for, 4B80
- in natural waters, after pre-concentration by sorption, review, 6H46
 - by anodic-stripping voltammetry, 12H47
- in nitric, hydrofluoric, hydrochloric or acetic acid, by spark-source m.s. and a.e.s., 4A6
- in non-conducting materials, by spark-source m.s., 4B10
- in phosphate rock, 4A8
- in plants and soil, after decomposition by nitric acid, hydrogen peroxide and u.v. irradiation, 5D14
- in potable water, by a.a.s., sampling and pre-concentration in, 9H38
- in raw vegetables, by ICP a.e.s., quality assurance in, 11F25
- in reference materials, by n.a.a., 9A13
- in rocks, by spark-source m.s., 3B109
- in sea-water, by X-ray spectroscopy, 10H45
 - reference material for, 4A9
 - review, 2H33
- in selenium, by extraction - spectrography, 11B107
- in semiconductors, by electrothermal a.a.s., 9B186
- in semiconductor selenium, by n.a.a., 9B124
- in semiconductor silicon, by n.a.a., 4B131
- in seminal plasma and spermatozoa by a.a.s., 4D38
- in serum, by XRF, 5D15
- in sinter-tantalum, by secondary-ion m.s., 11B101
- in solids, by laser-source m.s., 11J114
- in spring and river water, by n.a.a., 3H31
- in standard biological reference material, by n.a.a., 10A8
- in steel and alloys, by emission spectrometry, device for, 3B5
- in tobacco, by n.a.a., 5D11
- in tree leaves, bark and wood, by ICP a.e.s., 12D14
- in uraniferous rock, by instrumental n.a.a., 5B96
- in urban snow, by PIXE and instrumental n.a.a., 6H41
- in uterine tissue, by PIXE, 5D36
- in water, by ICP a.e.s. and a.a.s., 1H24
 - by α -particle-induced X-ray emission, 12H44

Trace elements, detmn. of, in water, —continued

- by spark-source m.s. of thin layers, 4B31
- pre-concentration methods for, 2B1
- sample decomposition and pre-concentration in, review, 7B1
- sub-stoichiometry in, review, 7B2
- systematic errors in, 4B2
- "thiol" cotton in, 3J4
- detmn. of profiles of, in human hair, by micro-PIXE, 11D16
- detmn. of toxic, in tea leaves, by n.a.a., 5F43
- extraction of, inter-element effects in chromatographic, review, 6B11
- pre-concentration of, wall-jet electrochemical cell for, in ICP a.e.s., 5J101
- sepn. of, from cadmium telluride and zinc selenide, 12B185
- speciation of, in natural water, review, 4H49
- Trace metals, detmn. of, in soil, by photon-activation method, 12G4**
- sepn. of, in natural waters, by size fractionation, review, 3H33
- Tracers, isotopic, measurement of, by scintillation counting or Geiger - Mueller detection, 4J157**
- Tranexamic acid, detmn. of, chloranil in spectrophotometric, 7E45**
- Tranquillizers, detmn. of, in pharmaceutical preparations, chloranil in spectrophotometric, 3E25**
- Transcortin, detmn. of, in serum, by r.i.a., 10D198**
- Transferrin, detmn. of, in serum, by kinetic nephelometry, 8D206**
 - centrifugal analyser in, 4D10
- detmn. of hexosamines in, by h.p.l.c., 6D151
- detmn. of variant of, by isoelectric focusing in presence of carbamoylated myoglobins as coloured markers, 10D205
- sepn. of, in plasma, by h.p.l.c., 3D195
- Transformer oils, assessment of degradation of, by h.p.l.c., 8C58**
- detmn. of fault gases in, by g.c., 10C58
- detmn. of hydrogen in, electrochemical, 5J168
- detmn. of PCB in, by g.c., statistical model for, 1A10
- Transistors, identn. of corrosion products of aluminium in, by electron microscopy and m.s., 9B56**
- metal oxide semiconductor, for detmn. of carbon monoxide, 7J127
- Transition metals, cation-exchange behaviour of, in hydrofluoric acid soln., 1B2**
 - sepn. of, by ion chromatography, 10B2
- Transketolase, assay of, in erythrocytes, 12D230**
 - measurement of coenzyme activation of, in blood, kinetic, 8D227
- Transplutonium elements, analytical chemistry of, review, 5B125**
 - extraction of, with substituted phosphine oxides, 5B127
 - sepn. of, by liquid chromatography, 1B57
- Transuranium elements, detmn. of, in environmental samples, α -spectrometric, ionization chamber for, 9J120**
- Trapidil, detmn. of, in serum, by h.p.l.c., 5D81**
- Trazodone, detmn. of, in plasma, by h.p.l.c., 9D72**
 - by h.p.l.c. with electrochemical detection, 5D69
- Trees, detection of peroxidase isoenzymes of, by electrophoresis, 9D247**
- Trenbolone, detmn. of, in edible animal tissues and endocrine glands, by r.i.a., review, 12D135**
- Trenbolone acetate, detection of, in blood and meat, review, 5D103**
- Triacylglycerol lipase, assay of, in pancreatin, by automated pH-stat titration, 3J120**
 - in plasma, 12D240
 - in presence of co-lipase, by turbidimetry, 1D211
 - in serum, substrate for, 6D315
 - detection and assay of, review, 4D320
 - detmn. of, in monkey post-heparin plasma, 9D264
- Tri-*allate*, detmn. of, in sediments, by g.l.c., 7H69**
- Triamcinolone, detmn. of, in urine, by h.p.l.c., pre-treatment in, 1D55**
- Triamcinolone acetonide, detmn. of, in soln. and ointment, by h.p.l.c., 8E43**
- Triamterene, detmn. of, in tablets, by h.p.l.c., 3E48**
 - in urine, by h.p.l.c. with flow programming, 7D90
 - sepn. of, in Cardiotensin, by h.p.l.c., 12E36
- Triamterene sulphate, detmn. of, in urine, by h.p.l.c. with flow programming, 7D90**
- Triazen, 1-(4-acetylphenyl)-3,3-dimethyl-, identn. of metabolites of, by h.p.l.c. and g.c. - m.s., 3D71**
- 1,3,5-Triazine, hexahydro-1,3,5-trinitro-, detmn. of, in water, by chronoamperometry, 2H62**
 - sampling of, from occupational atmosphere, 5H34
- 1,3,5-Triazine derivatives, detmn. of, in waste water, by h.p.l.c., 1H41**
- Triazine dyes, sepn. of, by h.p.l.c., 5D221**
- Triazolam, detmn. of, by h.p.l.c., 3E27**
 - in plasma and serum, by polarography, 7D66
 - in post-mortem tissues, by h.p.l.c., 10D80
- 1,2,4-Triazole, N-phenyl-, derivatives, sepn. of, by t.l.c. on silica gel, 11C31**
- Trichlormethiazide, detmn. of, by micro-bore column h.p.l.c., 6J29**
- Trichlorphon, detmn. of, in apples and pears, automated enzymic, 2F35**
 - in rice, soil and water, by g.c., 7G34
 - in vegetables, automated, 5F39
- Trichothecenes, detection of, in feeding-stuffs, by g.l.c., 1G8**
 - detmn. of, in food, by t.l.c., review, 7F19
 - in food and feeds, by g.c. and high-performance t.l.c., 10F13
 - in foods, by h.p.l.c., review, 10F12
 - in wheat, by g.l.c., 3G1
- Triethylamine, detmn. of, by extraction - spectrophotometry, 1C10**

Triethylamine, detmn. of, —continued

- crown ether derivative in spectrophotometric, 12C20
- Trifluoperazine**, detmn. of, ferricyanide in titrimetric, 11E26
- in plasma, by r.i.a., haptens for, 9D66
- , **7-hydroxy-**, detmn. of, in urine, by m.s., 8D51
- Trifluralin**, detmn. of, in sediments, by g.l.c., 7H69
- in water, by g.l.c. and g.l.c. - m.s., 2H60
- detmn. of *N*-nitrosodipropylamine in, by g.l.c., 4G31
- Trigallic acid**, detmn. of, in tannic acids, by h.p.l.c., 2C77
- Trigonelline**, detmn. of, in coffee, by polarography, 2F39
- Trimacaine**, detmn. of, in serum, by g.l.c., 12D88
- Trimellitic anhydride**, detmn. of, in curing agents for thermosetting resins, by h.p.l.c., 7C99
- Trimeperidine hydrochloride**, detmn. of, in pharmaceutical formulations, fluorimetric, 2E24
- Trimeprazine**, detmn. of, by anodic voltammetry, 10E24
- in dosage forms, by synchronous luminescence spectrometry, 6E52
- Trimethoprim**, detmn. of, and its metabolites and their conjugates, in urine, by h.p.l.c., 9D90
- in biological fluids, by h.p.l.c., 7D87
- in presence of sulphamethoxazole, in pharmaceutical preparations, by colorimetry, 7E37
- in saliva, by h.p.l.c., 5D95
- Trimethylamine**, detmn. of, in air, by ion chromatography, 1H14
- in biological materials, by g.l.c., 5D174
- in fish, by g.c., 4F35
- in urine, by g.l.c., as marker for bacterial growth, 12D162
- by m.s., 9D169
- sepn. of, from choline, trimethylamine oxide and betaine in marine fish, chromatographic, 9D155
- Trimethylamine oxide**, sepn. of, from choline, trimethylamine and betaine in marine fish, chromatographic, 9D155
- Trimipramine**, detmn. of, by rotating-disc-electrode voltammetry, 7E24
- in blood and tissues, by g.l.c., 3D56
- in tablets, by g.l.c., 11E27
- Trimipramine maleate**, detmn. of, in pharmaceutical formulations, by spectrophotometry, dyes for, 1E25
- Triolein**, analysis of pyrolysis products of, by g.c., 8D125
- detmn. of fatty acids in, by n.m.r., 2C55
- Triols**, detection of, in polyesters, by g.c., 12C70
- Triosephosphate isomerase**, sepn. of deamidated derivatives of, by electrophoresis, 3D277
- Tripalmitin**, detection of, by t.l.c. with f.i.d., 3D112
- detmn. of fatty acids in, by n.m.r., 2C55
- Tripeleannamine**, identn. of, with pentazocine, by h.p.l.c., 7E23
- Triphosphate**, detmn. of, in detergents, by ion chromatography, 9C68
- in presence of molybdenum, by paper chromatography or t.l.c., 7B88
- Triphosphates**, detmn. of, by potentiometry, reagent for, 4B122
- Triprolidine hydrochloride monohydrate**, detmn. of, in animal feed, human urine and waste water, by h.p.l.c. or g.c., 9G12
- Triquinol**, detmn. of, in pharmaceuticals, 11E8
- Trisaccharides**, detmn. of, by g.l.c., 5C21
- Tristearin**, analysis of pyrolysis products of, by g.c., 8D125
- Trithiocarbonate**, detmn. of, in presence of sulphite, thiosulphate and thiocyanate, by titrimetry with *o*-hydroxymercuribenzoate, 2B49
- Trithiocarbonates**, detmn. of organic, by visual or potentiometric titration, 7C30
- Tritium**, detection of, by autoradiography, X-ray films for, 2J102
- on t.l.c. sheets, by liquid scintillation, 1D10
- detmn. of, by autoradiography, calibration in, 12J147
- by liquid scintillation counting, effect of phials and background on, 11B18
- by tritium-excited XRF of titanium, 11B19
- in air, molecular sieve in, 2H9
- in environmental materials, by freeze-drying, apparatus for, 2H2
- in urine, by liquid scintillation, 1D11
- Tritolyl phosphate**, detmn. of, in edible oils and liquid paraffin, colorimetric, 10F70
- with its metabolites, in biological materials, by h.p.l.c., 8D92
- Triton X-100**, removal of, from protein soln., by adsorption on Toyopearl resin, 9D198
- Tropacine**, detmn. of, extraction - absorptiometric, 10E33
- Tropacocaine**, detection of, in illicit narcotics, by g.l.c., 11E4
- Tropane alkaloids**, detmn. of, in tablets or injections, by second-derivative u.v. spectrophotometry, 7E7
- Tropic acid derivatives**, sepn. of, by h.p.l.c., 10E5
- Troponin C**, detection of, after electrophoresis, by staining, 1D161
- Trout**, detection of superoxide dismutase in blood of, by isoelectric focusing, 1D197
- Trypsin**, assay of, linked enzyme, 6D308
- substrate for fluorimetric, 9D272
- assay of human pancreatic, by sandwich enzyme immunoassay, 8D248
- detection of, in polyacrylamide gels containing covalently bound substrates, 9D268
- sepn. of active from inactive, by affinity chromatography, 1D166
- Trypsin inhibitor**, detection of, in carp, by chromatography, 2D202
- Tryptamine**, detmn. of, by flow injection - chemiluminescence, 9C40
- in brain, by g.c. - m.s., 11D165
- in rat brain, by g.c. - m.s., 11D166
- in soy sauce, by t.l.c., 7F79

Tryptamine—continued

- sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , ***N*-acetyl-5-methoxy-**, detmn. of, in plasma, by g.c. - negative-ion chemical-ionization m.s., 8D176
- by r.i.a. and g.c. - m.s., 4D223
- , ***NN*-dimethyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , **5-hydroxy-**, detection of, in biological fluids, by h.p.l.c., 1D135
- detmn. of, by reaction with 1-nitroso-2-naphthol, 6D19
- in animal tissues, by h.p.l.c. with coulometric detection, 7D157
- in blood, by h.p.l.c. with electrochemical detection, 10D161
- in brain, by h.p.l.c., 2D168
- in fruit, by spectrofluorimetry and t.l.c., 8F45
- in plasma, by g.c. - m.s., 12D157
- by h.p.l.c. with e.c.d., 8D153
- in rat brain, by h.p.l.c., 6D205, 7D160, 8D146
- with electrochemical detection, 10D158
- identn. of, in uraemic serum, by h.p.l.c., 1D122
- sepn. of, by ion-pair liquid chromatography, 11D160
- from its precursors and metabolites, by h.p.l.c., 7D163
- from other indolalkylamines, by h.p.l.c., 2D169
- , **5-methoxy-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , **5-methoxy-*NN*-dimethyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , **5-methoxy-*N*-methyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , ***N*-methyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- Tryptamine oxalate**, **5-hydroxy-*NN*-dimethyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- , **5-hydroxy-*N*-methyl-**, sepn. of, from other indolalkylamines, by h.p.l.c., 2D169
- Tryptamine *O*-sulphate**, **5-hydroxy-**, detmn. of, by h.p.l.c. with dual-electrode electrochemical detection, 1D126
- Tryptophan**, detection of enantiomers of, by ligand chromatography, 6D218
- detmn. of, by flow injection - chemiluminescence, 9C40
- by voltammetry at gold, graphite or platinum electrodes, 9D177
- in brain, by h.p.l.c., 2D168
- in plasma, by h.p.l.c., 12D167
- in plasma and brain, by h.p.l.c. after conversion into 9-hydroxy-methyl- β -carboline, 4D224
- in rat brain, by h.p.l.c., 8D146
- identn. of, in uraemic serum, by h.p.l.c., 1D122
- identn. of 9*H*-pyrido[3,4-*b*]indole derivatives in pyrolysates of, by t.l.c. and h.p.l.c., 2D179
- , ***N*-acetyl-**, detmn. of, in albumin preparations, by spectrophotometry, 9E59
- , **5-hydroxy-**, detection of, in biological fluids, by h.p.l.c., 1D135
- detmn. of, in brain, by h.p.l.c., 2D168
- identn. of, in uraemic serum, by h.p.l.c., 1D122
- Tryptophan derivatives**, sepn. of, by t.l.c., 3D147
- Tryptophan 5-monoxygenase**, assay of, in brain stem, radiometric, 3D252
- T-2 toxin**, detection of, in feeding-stuffs, by g.l.c., 1G8
- in foods, by enzyme immunoassay, 1F2
- in serum or urine, by r.i.a., 10D111
- detmn. of, in cereals, by h.p.l.c., 10G2
- in feeds, by g.l.c., 6G21
- in maize, by g.c. - m.s. with selected-ion monitoring, 9G2
- in mouldy food, by t.l.c., 5F6
- in plasma, by g.l.c., 2D117
- identn. of, by direct supercritical-fluid injection m.s., 6D140
- Tubercidin**, detmn. of, by h.p.l.c., 8E41
- Tuberculostats**, detmn. of, in biological fluids, review, 5D93
- Tubocurarine chloride**, detmn. of, in pharmaceutical preparations, by spectrophotometry, 7E8
- in plasma, by h.p.l.c., 11D83
- Tubulin**, detmn. of, in pig lung, by r.i.a., 10D206
- Tuff**, detmn. of americium and plutonium in, by X-ray and gamma-ray spectrometry, 11G14
- Tumour**, assay of bile salt sulphotransferase and steroid sulphotransferase in cytosol of, by radiometry, 4D310
- detmn. of doxorubicin in interstitial fluid of, by *in vivo* fluorimetry with single-fibre fluoroprobes, 4D84
- Tuna**, detmn. of amines in, by h.p.l.c., 2F6
- detmn. of arsenic in, by hydride generation - direct-current plasma emission spectrometry, 10B101
- detmn. of methylmercury in, by g.l.c., 8F33
- Tungstate**, identn. of, by paper chromatography, 11B15
- sepn. of, from other oxoanions, by ion-exchange chromatography, 5B194
- Tungsten**, adsorption of, on activated carbon, 6B135
- analysis of, by wavelength-dispersive X-ray spectrometry with transmission electron microscope, 9J76
- detmn. of, by potentiometry or titration, electrode for, 8B99
- by spectrophotometry, 8B101, 10B127
- by spectrophotometry with toluene-3,4-dithiol, 5B204
- by sublimation - spectrography, 9B130
- cinnamohydroxamic acids in spectrophotometric, 2B4
- in alloys and rocks, by ICP a.e.s., 11B116

Tungsten, detmn. of,—*continued*

- in complex compounds, 9B132
- in ferrous materials, by polarography, 11B142
- in ion-exchange resins and eluates, by γ -ray absorption, 7B101
- in minerals, by XRF spectrometry, 6B99
- in molybdenum-containing silicate ores, by extraction chromatography - spectrophotometry, 8B100
- in refractory materials and steel, by XRF, 1B105
- in silicate rocks, spectrographic, 6B96
- in steel, by γ -activation, 3B96
- by emission spectrometry, Grimm lamp in, 10B149
- iodide-selective electrode in, 5B205
- in vanadium - tungsten alloys, X-ray, 11B117
- in water, by ion-exchange chromatography, 5B194
- lobeline and catechol violet in extraction - spectrophotometric, 3B83
- polarographic, 3B82
- detmn. of boron in, by ICP a.e.s., 11B40
- detmn. of fluorine in, by proton activation - prompt γ -ray spectrometry, 9B135
- detmn. of iron in, by catalytic polarography, 1B106
- detmn. of molybdenum in concentrate of, polarographic, 9B134
- detmn. of silicon and phosphorus in, by n.a.a., 5B206
- detmn. of trace, in steel, spectrophotometric, 9B146
- detmn. of trace impurities in, spectrographic, 9B133
- detmn. of trace metals in, by flame spectrometry and polarography, 7B102
- review, 5B200
- sepn. of, from molybdenum, on mercaptoacetic acid-bonded resin, 11B114
- Tungsten alloys**, detmn. of tungsten in vanadium-containing, X-ray, 11B117
- Tungstic acid**, detmn. of phosphorus in, spectrophotometric, 3B84
- Tunicamycin**, sepn. of, from other tunicamycinuracil-based antibiotics, by h.p.l.c., 4E28
- Turbidimetry**, analysis of binary mixtures by, phase equilibria in, 11A16
- Turinabol**, detmn. of, and its metabolites, in urine, by g.c. and g.c. - m.s., 3D73
- Turkey**, detection of meat of, in food products, immunochemical, 5F23
- detmn. of dimetridazole in, by h.p.l.c., 2F18
- detmn. of solid fat, fatty acids and triglycerides in fat of, 5F21
- detmn. of sulphonamides in, by t.l.c., 2D101, 2D102
- Turneric**, detmn. of curcumin in, by h.p.l.c., 10F53
- detmn. of 1,2-dichloroethane in, by steam-distillation - g.c., 11C59
- Turquoise**, identn. of genuine or imitation, by X-ray diffractometry, 5B267
- Tutin**, detmn. of, in *Loranthus parasiticus* or *Loranthus yadoriki* leaves, by t.l.c. - spectrophotometry, 4E14
- Tylosin**, sepn. of, from other macrolides, by ion-pair chromatography, 8E39
- Tyramine**, detmn. of, by reaction with 1-nitroso-2-naphthol, 6D19
- in soy sauce, by t.l.c., 7F79
- in wine, by h.p.l.c., 5F52
- , 3-methoxy-, detmn. of, in urine, by h.p.l.c., 5D74
- Tyrosine**, detection of enantiomers of, by ligand chromatography, 6D218
- detmn. of, by h.p.l.c. with voltammetric detection, 7E26
- by reaction with 1-nitroso-2-naphthol, 6D19
- by voltammetry at gold, graphite or platinum electrodes, 9D177
- in rat brain, by h.p.l.c., 8D146
- in serum or plasma, kinetic spectrophotometric kit for, 10D169
- in urine and serum, by h.p.l.c., 8D166
- plant-tissue-based amperometric electrode for, 7J133
- detmn. of hormones derived from, by h.p.l.c., 5D176
- sepn. of, by ion-pair h.p.l.c., 12D211
- , 3,5-di-iodo-, sepn. of, from 3-iodotyrosine, by h.p.l.c., 11D177
- , 3-iodo-, sepn. of, from 3,5-di-iodotyrosine, by h.p.l.c., 11D177
- , phospho-, detection of, by t.l.c., on polyamide gel, 4D222
- Tyrosine decarboxylase**, assay of, by spectrophotometry, 5D256
- Tyrosine derivatives**, sepn. of, by t.l.c., 3D147
- Tyrosine hydroxylase**, assay of, in adrenal tissue, by sandwich enzyme immunoassay, 11D237

U

- Ubiquinone 10**, detmn. of, in serum and liver, by h.p.l.c., 12D245
- Ubiquinones**, sepn. of, by h.p.l.c., 2D157, 6D286
- UDPglucosyltransferase**, assay of, in plants, by h.p.l.c., 7D244
- UDPglucuronosyltransferase**, assay of, by g.l.c., substrate for, 7D243
- assay of activity towards bile acids of, in liver microsomes of rat, by radiometry, 4D309
- UDP reductase**, assay of, by chromatography on polyethylenimine-cellulose, 8D231
- Uncaria rhynchophylla** Miq., identn. of tertiary indole alkaloids in, by h.p.l.c., 7E4
- Uracil**, detmn. of, by ion-exchange chromatography, 6D277
- sepn. of, by ion-pair h.p.l.c., 12D211
- , 1- β -D-arabinofuranosyl-, detmn. of, in serum, by h.p.l.c., 4D130
- , 5-iodo-, detmn. of, xanthene derivative in spectrophotometric, 3D79
- , methylthio-, detmn. of, in tablets, potentiometric and amperometric, 2E51
- Uracil**, sepn. of,—*continued*
- spectrophotometric, 10E40
- , 2-thio-, detmn. of, by cathodic-stripping voltammetry, 1E12, 6J188
- Uranium**, analysis of, dissolution methods for, 9B84
- detection of, by resonance-ionization m.s. with intra-cavity laser ionization, 12B74
- detmn. of, by automated coulometry, 1J120
- by conductometric titration with 3,5-xylylene-*NN*-diacetate, 5B13
- by coulometric titration, 5B115
- by delayed-neutron measurement, californium-252 source in, 11B57
- by differential pulse polarography, 9B81
- by extraction - polarography, 7B67
- by ICP a.e.s., 5B113
- by laser-induced fluorimetry, 4B89
- by potentiometric titration, 4B91
- by pulsed optoacoustic spectrometry, oxidation-state-specific, 10B69
- by pulse polarography, 5B114
- by redox potentiometric titration, effect of plutonium on, 11B55
- by redox titration, indicator for, 5B109
- by spectrometry, 3B58
- by spectrophotometry, reagent for, 6B89
- by thermal-lens spectrometry, 5B110
- chloranilic acid in spectrophotometric, 3B60
- 5'-chloro-2',4'-dihydroxypropiophenone or its oxime in spectrophotometric, 10B70
- cinnamohydroxamic acids in spectrophotometric, 2B4
- in alloys and oxides, by delayed-neutron measurement, 2B42
- in bauxite and coal ash, by epithermal n.a.a., 8B47
- in biological samples, calibration source for, 8D26
- in biological tissues, by m.s., 2D28
- in bone, by α -spectrometry, 10D36
- in cereals and pulses, by fission track counting, 3G3
- in dynamic memory materials, aluminium and PTFE, by fission counting, 4B88
- in effluents, slag and ores, oscillopolarographic, 10H87
- in environmental materials, 5H2
- in fertilizers and phosphates, by a.a.s. with argon plasma, 2G8
- in fly ash, 5B279
- in fresh waters and sea-water, by stripping voltammetry, 5H54
- in fuel reprocessing soln., by XRF, 11B59
- in geological materials, by XRF, 9B79
- in Indian toothpastes, by fission-track method, 12C58
- in marine phosphorites by γ -ray spectrometry, 4B87
- in minerals, by spectrophotometry after sepn. on tributyl phosphate-impregnated resin, 3B59
- in mixed oxide nuclear fuel, by XRF, intensity-ratio method for, 11B58
- in mixtures, by resonance ionization m.s., 12B72
- in natural and waste waters, by XRF, 5H53
- in natural waters and ores, fluorescence-enhancing agents in laser spectrofluorimetric, 7B68
- in nuclear-reactor fuel, 4B92
- in ores, by a.a.s., 1B58
- by extraction chromatography - spectrophotometry, 10B71
- by spectrophotometry, 5B112
- in organic extracts, by potentiometric titration, 2B44
- in phosphorites, with solid-state nuclear track detectors, 1B87
- in phosphorus - yttrium minerals, ion-selective electrode for, 11J128
- in plutonium, by XRF, 6B92
- in presence of gold, on resin, by XRF, 7B35
- in presence of nickel and zinc, in carboxylate salts, by XRF, 8B13
- in primary reactor-coolant water, by n.a.a., 12B32
- in rare-earth-metal mixtures, spectrophotometric, 10B60
- in red mud, review, 1B47
- in rocks, by instrumental n.a.a., 5B96
- by X-ray spectrometry, 1B59
- by XRF, 9B82
- in sea-water, by n.a.a., 3H41
- triethylphosphine oxide-coated electrode for voltammetric, 3H42
- in soln., by energy-dispersive XRF, 4B90
- in spent nuclear-reactor fuel, by differential spectrophotometry, 5B120
- by isotope-dilution α - and mass spectrometry, 5B119
- in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
- in urine, isolation method for, 7D28
- in waste water, by spectrophotometry with chelating-agent-loaded anion-exchange membrane, 5H91
- in water, by n.a.a., 8H56
- in water and biological materials, by pptn. - n.a.a., 11H38
- in wet-process phosphoric acid, fluorimetric, 10B100
- in zirconium and its alloys, by cation exchange - spectrophotometry, 9B101
- nitro-derivatives of 2-benzoylindan-1,3-dione in spectrophotometric, 7B19
- detmn. of α -emitting isotopes of, in bone, 7D29
- detmn. of impurities in reference material of, 5A15
- detmn. of isotopes of, by thermal-ionization m.s., 12B73
- detmn. of isotopic composition of, cobalt-57 source in, 5B111
- detmn. of molybdenum in, by differential pulse polarography, 4B96

Uranium—continued

- detmn. of plutonium, uranium and americium isotopes in, by electro-deposition - α -particle spectrometry, 9B76
- detmn. of trace, by ICP a.e.s., 9B78
- in phosphoric acid, by ICP a.e.s., interference in, 11B93
- in water, by laser fluorimetry, 8H57
- detmn. of trace impurities in soln. of, by flameless a.a.s., 7B69
- detmn. of uranium-235 and -238 in, by γ -ray spectrometry of neutron-induced fission products, 2B43
- extraction of, dibutyl (diethylcarbamoylmethyl)phosphonate in, 11B52
- from aq. soln., by isobutyl methyl ketone - cyclohexanone, 6B19
- from carbonate soln., alkylcatechol in, 5B126
- from radioactive waste soln., pyrazolone derivatives in, 11B56
- hexanoic acid in, 10B72
- synergic system for, 8B59
- measurement of free acidity in soln. of, by standard addition method, 12B28
- sepn. of, by ion-exchange chromatography, sorption on hydrous tin oxide in relation to, 3B61
- from fission products, 4-benzoyl-3-methyl-1-phenylpyrazolin-5-one in, 12B75
- from other metals, by crown ether polymer sorbent, 5B117
- by liquid chromatography with hydroxamic acids as stationary phases, 5J26
- in radioactive wastes, by ion exchange on vermiculite or filterolite, 2B45
- on polyurethan foam impregnated with trioctylphosphine oxide, 5B118
- 1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione in, 2B36
- Uranium-234**, detmn. of, in soft tissues, by α -spectrometry, 4D41
- Uranium-235**, detmn. of, in soft tissues, by α -spectrometry, 4D41
- in uranium, by γ -ray spectrometry of neutron-induced fission products, 2B43
- measurement of enrichment of, by γ -ray counting, calibration in, 9B83
- Uranium-238**, detmn. of, in neutron-irradiated uranium, by electro-deposition - α -particle spectrometry, 9B76
- in soft tissues, by α -spectrometry, 4D41
- in uranium, by γ -ray spectrometry of neutron-induced fission products, 2B43
- Uranium alloys**, analysis of, dissolution methods for, 9B84
- detmn. of uranium in, by delayed-neutron measurement, 2B42
- Uranium carbides**, analysis of, dissolution methods for, 9B84
- detmn. of carbon in, by g.c., 2B47
- detmn. of hydrogen, nitrogen and oxygen in, by inert-gas fusion, 4B95
- Uranium hexafluoride**, detmn. of gadolinium, dysprosium, samarium and europium in, spectrographic, 12B76
- detmn. of impurities in, by ICP a.e.s., 2B46
- Uranium nitride**, detmn. of hydrogen, nitrogen and oxygen in, by inert-gas fusion, 4B95
- Uranium ores**, detmn. of radium-226 in, 12B78
- detmn. of rare-earth metals in, by n.a.a., 10B61
- detmn. of uranium in hydrometallurgical products of, by delayed-neutron measurement, 11B57
- Uranium oxides**, analysis of, dissolution methods for, 9B84
- detmn. of uranium in, by delayed-neutron measurement, 2B42
- Uranium oxide (UO₂)**, detmn. of hydrogen, nitrogen and oxygen in, by inert-gas fusion, 4B95
- detmn. of oxygen-to-uranium ratio in nuclear fuels based on, polarographic, 8B61
- detmn. of oxygen-to-uranium ratio of, review, 9B85
- detmn. of stoichiometry of, by differential pulse polarography, 10B73
- Uranium oxide (U₃O₈)**, detmn. of trace metals in, by a.a.s., 4B97
- by ICP a.e.s., selective volatilization in, 12J96
- Uranyl fluoride**, particle size analysis of, by Coulter counter, 12J178
- Uranyl ion**, detmn. of, in aq. samples, by fluorimetry, 5B116
- Uranyl nitrate**, detmn. of, in aq. nitric acid, by measuring density and refractive index, 6B90
- detmn. of free acidity of soln. of, by pH measurement in presence of ammonium sulphate, 10B75
- Urapidil**, detmn. of, with its metabolites, in urine, by h.p.l.c., 7D82
- Urate**, detmn. of, in cerebrospinal fluid, by h.p.l.c., 2D222
- in plasma, enzymic - colorimetric, 9D239
- in serum, automated, 6D283
- plasma and urine, by h.p.l.c., 10D241
- Urea**, detmn. of, bacterial electrode in, 1J107
- by g.l.c. - refractometry, 3C2
- in animal feeds, 5G23
- in blood, electrode for, 7D155
- plasma or serum, by reflectance photometry, 12D149
- in blood and serum, by h.p.l.c., 12D147
- in feeds, by spectrophotometry, 3G9
- in fertilizers, by ebulliometry, 10G12
- in pharmaceutical products, titrimetric, 1E41
- in plasma, simultaneously with glucose, automated, 1D124
- in plasma and blood, differential pH technique in, 12D148
- in seafood, enzymic - spectrophotometric, 9F28
- in serum, by isotope-dilution m.s., 12D150
- by potentiometry with ammonium-selective electrode after reaction with urease, 4D206
- microwave cavity ammonia monitoring in, 2D161

Urea, detmn. of,—continued

- spectrophotometric, 3D129
- in urine, with enzyme reactor and second-derivative spectrophotometry, 2D160
- kit for, 9D156
- micro enzyme field-effect transistor for, 5J181
- , **benzoyl-**, detmn. of, by h.p.l.c., 8G17
- , **1-(2-chloroethyl)-3-(2,6-dioxo-3-piperidyl)-1-nitroso-**, detmn. of, in plasma, by t.l.c. - m.s., 1D65
- , **N-(4-ethoxyphenyl)-**, detmn. of, in beverages and ice-cream, by spectrophotometry, 3F7
- , **O-((-)-menthyl)-N'-di-isopropyliso-**, as reagent for g.l.c. sepn. of enantiomeric acids, 2A4
- , **N-methyl-N'-[2-(5-methylimidazol-4-ylmethylthio)ethyl]thio-**, detmn. of, by t.l.c. - h.p.l.c. - m.s., 5E47
- , **N-methyl-N-nitroso-**, detmn. of, in biological fluids, by h.p.l.c. with photo-hydrolysis detection, 6D141
- , **phenylthio-**, detmn. of, coulometric, 3C22
- , **thio-**, detmn. of, 1-bromo-3-chloro-5,5-dimethylhydantoin in potentiometric titrimetric, 9A17
- by catalysis of bromopyrogallol red - hydrogen peroxide reaction, 11C14
- by potentiometric titration, with potassium chlorate, 4C32
- by potentiometric titration with iodate, 8B93
- coulometric, 3C22
- in presence of ammonium thiocyanate, 11B70
- manganese^{III} in coulometric titrimetric, 12A7
- detmn. of derivatives of, by catalysis of azide - iodine reaction, 3C21
- i.r. spectrum of, in potassium bromide or Nujol mull, 6C14
- Urea-nitrogen**, detmn. of, by Kjeldahl digestion, indophenol blue reaction in, 1D26
- in blood, by biacetyl monooxide or urease - Berthelot method, effect of apomorphine in, 10D153
- with Ektachem 400 Analyzer, 6D9
- in serum, automated analyser for, 9D10
- in serum or plasma, dry film slides and reflectance photometer in, 12J108
- in urine, with Beckman ASTRA analyser, 1D123
- Uric acid**, detmn. of, amperometric, 9D240
- bilirubin interference in enzymic - spectrophotometric, 10D240
- by titrimetry, amplification reactions in, 2C38
- in blood, effect of ascorbic acid on, review, 5D8
- in blood and serum, by h.p.l.c., 12D147
- in chicken urine, blood or tissue, by h.p.l.c., 10D242
- in grain and flour, by h.p.l.c., 6G4
- in human cerebrospinal fluid, by reversed-phase h.p.l.c. with electrochemical detection, 12D215
- in insect eggs, by h.p.l.c., 10D239
- in plasma and urine, by h.p.l.c., 4D288
- in rat serum, by h.p.l.c., 5D227
- in serum, automated analyser for, 9D10
- by h.p.l.c., 7D227, 7D228
- by Hycel BMD method, interference by bilirubin in, 12D213, 12D214
- plasma and urine, by h.p.l.c., 11D106
- in serum and brain, by h.p.l.c., 6D284
- in urine, pre-treatment procedure for, 10D14
- sepn. of, by ion-pair h.p.l.c., 12D211
- Uridine**, detmn. of, by h.p.l.c., after derivatization with 4-bromomethyl-7-methoxycoumarin, 6D281
- in seaweed, by ion-exchange chromatography, 6D277
- sepn. of, by ion-pair h.p.l.c., 12D211
- , **deoxy-**, detmn. of, by h.p.l.c., after derivatization with 4-bromomethyl-7-methoxycoumarin, 6D281
- , **2-deoxy-**, detmn. of, by spectrophotometry, diphenylamine in, 5D217
- , **deoxyfluoro-**, detmn. of, by h.p.l.c., after derivatization with 4-bromomethyl-7-methoxycoumarin, 6D281
- , **5'-deoxy-5-fluoro-**, detmn. of, in blood plasma, by isotachopheresis, 4D131
- Uridine phosphate**, sepn. of, by ion-pair h.p.l.c., 12D211
- Uridine phosphorylase**, assay of, in tissues, by h.p.l.c., 3D257
- Urinary calculi**, analysis of, by Raman micro-probe, 7D14
- Urine**, analysis of, by g.l.c., "heart-cutting" in, 11J61
- by high-frequency n.m.r., 10D3
- by h.p.l.c., 10J35
- electrochemical detector for, 12J43
- effect of ascorbic acid on, review, 5D8
- pre-treatment procedure for, 10D14
- progress in, review, 6D6
- screening procedure for drugs and toxic substances in, 8D32
- with test strips, review, 1D2
- assay of *N*-acetylglucosamine-6-sulphate sulphatase in, by electrophoresis, 11D257
- assay of β -*N*-acetyl-D-glucosaminidase in, by spectrophotometry, substrate for, 4D324
- indirect spectrophotometric, 7D257
- spectrophotometric, 12D232
- assay of amylase and isomylase in, centrifugal analyser in, 1D225
- assay of carbonate dehydratase in, by r.i.a., 8D256
- assay of enzymes in, pre-treatment for, 6D303

Urine, assay of enzymes in,—continued

- stability-indicating, 3D246
 assay of kallikrein in, by h.p.l.c. with continuous-flow enzymic detection, 2D234
 by immunoabsorption - fluorimetry, 5D251
 assay of lactate dehydrogenase in, by electrophoresis, 1D202
 assay of lysozyme in, by turbidimetry, 2D231
 assay of neutral and acid α -glucosidases in, 3D271
 detection of aflatoxins in, by h.p.l.c., 2D122
 detection of anabolic steroids in, by g.l.c. - m.s., 6D69
 detection of cannabinoids in, by g.c. - m.s., 5D52
 detection of diprophen and thiphenamil in, by t.l.c., 5D80
 detection of doping drugs in, in presence of polyoxyethylene glycol, by h.p.l.c., 5D41
 detection of doubly unsaturated valproic acid metabolites in, by g.c. - m.s., 12D77
 detection of drugs and metabolites in, by g.c., 10D49
 detection of drugs of abuse in, by t.l.c., 3D31
 detection of flurazepam and its metabolites in, by t.l.c., 3D43
 detection of imino-peptides in, by isotachopheresis, 8D174
 detection of leucocytes, blood, protein and nitrite in, test strips for, 4D19
 detection of metabolites of steroids in, by computerized g.l.c., 6D70
 detection of methylmalonic acid in, colour reaction for, 4D161
 detection of morphine in, by test-strip immunoassay, 4D72
 detection of 11-nor- Δ^9 - and - Δ^8 -tetrahydrocannabinol-9-carboxylic acid in, by t.l.c. - g.l.c. - m.s., 2D55
 detection of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in, by t.l.c., 11D49
 detection of oligosaccharides in, by t.l.c., 6D146
 detection of organic acids in, by cation-exchange chromatography, 12D119
 detection of phenothiazines and metabolites in, by g.c. - m.s., 11D73
 detection of proteins in, on polyacrylamide gels, silver stain for, 9D202
 detection of steroid derivatives in, by capillary g.c., 4J74
 detection of T-2 toxin in, by r.i.a., 10D111
 detection of zomepirac in, 10D89
 detmn. of acetone and acetoacetic acid in, by g.l.c., 5D122
 detmn. of acidic catecholamine metabolites in, by g.c., review, 10D154
 detmn. of adrenaline, dopamine and noradrenaline in, fluorimetric, 8D151
 noradrenaline and dopamine in, by h.p.l.c., 2D164
 detmn. of aflatoxin B₁ in, by r.i.a., 3D83
 detmn. of allopurinol, oxypurinol and uric acid in, by h.p.l.c., 11D106
 detmn. of aluminium in, by extraction - graphite-furnace a.a.s., 10D35
 detmn. of amino-acids in, removal of ammonia before, 12D173
 detmn. of 5-(*L*-2-amino-2-carboxyethylthio)-*L*-dopa in, by h.p.l.c., 7D175
 detmn. of aminoglutethimide in, by g.l.c., 12D97
 detmn. of aminoglycoside antibiotics in, by pptn. and spectrophotometry, 8E37
 spectrophotometric, 12D69
 detmn. of 4-aminohex-5-enoic acid in, by automated amino-acid analysis, 11D67
 detmn. of α -amino-nitrogen in, by spectrophotometry, proposed
 Pharmacopoeial methods for, 4D217
 detmn. of ammonium in, by h.p.l.c., 11D24
 detmn. of amoxycillin in, 8E30
 detmn. of amphetamine and methylamphetamine in, by h.p.l.c., 12D81
 detmn. of amphetamines in, by g.c., 3D61
 by head-space g.c., 7D72
 detmn. of ampicillin in, by t.l.c., 6D62
 detmn. of anabolic steroids in bovine, by two-dimensional t.l.c., 7D96
 detmn. of analgesics in, by h.p.l.c. with electrochemical detection, 5D65
 detmn. of androgens in, by t.l.c., 6D192
 detmn. of anethole trithione and its metabolites in, by h.p.l.c., 2D112
 detmn. of anthracene-9-carboxylic acid in, by fluorimetry, 5D108
 detmn. of anthracycline antineoplastics in, by h.p.l.c., 11D58
 detmn. of antidepressants in, by computerized g.c. - m.s., 9D67
 detmn. of antiepileptics in, by h.p.l.c., 5D60
 detmn. of antihistamines in human, by h.p.l.c., 9G12
 detmn. of apalcillin in, by h.p.l.c., 1D44
 detmn. of arginine-vasopressin in, by r.i.a., 9D197
 detmn. of arsenic and hydroxydimethylarsine oxide in, by Zeeman-effect electrothermal a.a.s., 11D28
 detmn. of arsenic and mercury in, by a.a.s., automation of, 9D29
 detmn. of arsenic in, by wet digestion - a.a.s., 5D31
 detmn. of L-ascorbic acid in, colorimetric, 7D234
 detmn. of aspirin and its metabolites in, by h.p.l.c., 4D100
 detmn. of AT-2266 and its metabolites in, by h.p.l.c., 7D86
 detmn. of atenolol in, by h.p.l.c., 3D65, 4D116
 detmn. of aztreonam in, by h.p.l.c., 6D67
 detmn. of barbiturates in, by g.c., 3D44
 detmn. of benzodiazepines in, by r.i.a., antiserum for, 10D91
 detmn. of benzofenac metabolites in, by g.c. - m.s., 11D86
 detmn. of 5-benzoyl-2,3-dihydro-6-hydroxy-1*H*-indene-1-carboxylic acid in, by g.l.c., 6D86
 detmn. of benzoylgonine in, by r.i.a., 9D40
 by spectrophotometry, 5D50

Urine—continued

- detmn. of betaxolol in, by g.c. - m.s., 9D80
 by g.l.c., 2D93
 detmn. of bile acids in, by g.l.c., 5D157
 detmn. of biopterin and neopterin in, by polarization fluoro-immunoassay, 12D223
 detmn. of 2,2-bis-(4-chlorophenyl)acetic acid in, by colorimetry, 9D106
 detmn. of butofolol in, by g.c. and h.p.l.c., 7D76
 detmn. of cadmium and lead in, by flameless a.a.s., matrix modification in, 2D24
 detmn. of cadmium in, by a.a.s., 2D23, 3D19, 8D22, 12D28
 by electrothermal a.a.s. with pyrometric feed-back, 9J95
 by flow-injection spectrophotometry, 5D23
 detmn. of cadralazine and its metabolites in, by isotope dilution, 8D76
 detmn. of caffeine in, by g.c., 7D46
 detmn. of calcium and phosphorus in, automated spectrophotometric, 3D16
 by plasma emission spectrometry, 12D22
 detmn. of calcium in, spectrophotometric kit for, 10D27
 detmn. of cannabinoids in, by h.p.l.c. and t.l.c. as dabsyl derivatives, 12D66
 detmn. of canrenone in, by h.p.l.c., 6D126
 detmn. of captopril and its metabolites in, by g.c. - m.s., 8D77
 detmn. of catecholamine metabolites and 5-hydroxyindol-3-ylacetic acid in, by g.l.c., 6D204
 detmn. of catecholamine metabolites in, by g.l.c., 3D106
 by h.p.l.c., 5D169
 by reversed-phase h.p.l.c. with electrochemical detection, 12D153
 detmn. of catecholamines, adrenaline and noradrenaline in, by g.c. - m.s., 4D207
 detmn. of catecholamines in, by ion-exchange chromatography with electrochemical detection, 7D156
 interference by triamterene in, 1D125
 detmn. of catecholamines in human, by h.p.l.c. with post-column derivatization, 12D152
 detmn. of catecholamine sulphates in, by h.p.l.c. with fluorescence detection, 4D209
 detmn. of cefmenoxime in, by h.p.l.c., 1D45, 6D64
 detmn. of cefoperazone in, by h.p.l.c., 2D56
 detmn. of cefotaxime in, by enzyme inhibition, 7D50
 detmn. of cefotetan and iohalamic acid in, by h.p.l.c., 9D48
 detmn. of cefsulodin in, by h.p.l.c., 10D69
 detmn. of ceftazidime in, by h.p.l.c., 11D52, 11D53
 detmn. of ceftizoxime in, by h.p.l.c., 11D51
 detmn. of cephalosporins in, by h.p.l.c., 2D57, 5D53
 detmn. of chloramphenicol and its metabolites in, by h.p.l.c., 3D41
 detmn. of chlorhexidine in, by h.p.l.c., 11D99
 detmn. of chloride in, spectrophotometric, 12D50
 detmn. of 9-chloro-7-(2-chlorophenyl)-5*H*-pyrimido-[5,4-*d*]benzazepine and its 5-hydroxy-metabolite in, by g.l.c. and h.p.l.c., 2D77
 detmn. of chloronaphthalenes and PCB in, by room-temp. phosphorescence, 7H68
 detmn. of 4-chloro-*o*-toluidine in, by h.p.l.c., 5D107
 detmn. of chlorpromazine and its metabolites in, by h.p.l.c., 3D54
 detmn. of chlorpromazine in, by anodic-stripping voltammetry, 5E37
 by flow injection with voltammetric detection, 3J7
 detmn. of chlorthalidone in, by h.p.l.c., 10D108
 detmn. of chorionic gonadotrophin in, by chemiluminescence immunoassay, 12D193
 by enzyme immunoassay, 1D171
 detmn. of chromium in, by a.e.s. and a.a.s., 1D31
 detmn. of cimetidine in, by voltammetry, 5D90
 detmn. of cinnamaldehyde in, by g.l.c., 4G26
 detmn. of cisplatin in, by liquid chromatography, detection system for, 1D68
 detmn. of clavulanic acid in, by h.p.l.c. with post-column alkaline degradation, 10D68
 detmn. of cloiquinol in, by h.p.l.c., 2D100
 detmn. of clofibrate and its glucuronide in, by h.p.l.c., 5D105
 detmn. of clomipramine, desmethylclomipramine, caffeine and zomepirac in, by g.l.c., t.l.c. and h.p.l.c., 3D58
 detmn. of cocaine in, by g.l.c., stability of samples for, 4D73
 detmn. of codeine, morphine and their metabolites in, by g.c. - m.s., 2D52
 norcodeine and morphine in, by h.p.l.c., 11D41
 detmn. of codeine and morphine in, by g.l.c., 3D32
 by h.p.l.c., 5D45
 detmn. of copovithane in, by h.p.l.c., 8D85
 detmn. of copper in, by graphite-furnace a.e.s., 2D17
 detmn. of corticosteroids in, by h.p.l.c. with fluorimetric detection, 8D141
 detmn. of creatine in, by cation-exchange chromatography, 9D160
 enzymic, 9D161
 detmn. of creatinine in, amperometric sensor for, 2J114
 by h.p.l.c., 6D208
 interference by cefoxitin and ceforanide in, 6D207
 spectrophotometric, 3D132
 detmn. of cyclizine in, by g.l.c., 11D98
 detmn. of (-)-1-cyclopropylmethyl-4-(3-trifluoromethylthio-5*H*-dibenzo[*a,d*]cyclohept-5-ylidene)piperidine in, by g.l.c., 1D57

Urine—continued

- detmn. of cyproheptadine in, by g.l.c., 4D122
 detmn. of dehydroepiandrosterone sulphate in, enzymic, 4D192
 detmn. of dextromethorphan and its metabolites in, by h.p.l.c., 9D89
 detmn. of 2,6-diamino-9-(2-hydroxyethoxymethyl)purine in, by r.i.a., 5D102
 detmn. of diamorphine in, by t.l.c., 1D40
 detmn. of diazepam in, by extraction - spectrophotometry, 9D64
 detmn. of *N*-(2,4-dichlorobenzyl)indazole-3-carboxylic acid in, by h.p.l.c., 6D124
 detmn. of 6,7-dichloro-2-(4-fluorophenyl)-2-methyl-1-oxindan-5-ylox-yacetic acid in, by methylation - g.l.c., 9D100
 detmn. of diflunisal in, by h.p.l.c., 8D49
 detmn. of 2-(2,4-difluorophenyl)-4,5-bis-(4-methoxyphenyl)imidazole in, by h.p.l.c., 5D73
 detmn. of digoxin in, by enzyme immunoassay, 12D64
 detmn. of digoxin-like immunoreactive substances in, by solid-phase r.i.a., 10E14
 detmn. of 1,6-dihydro-2-methyl-6-oxo-3,4'-bipyridyl-5-carbonitrile in, by h.p.l.c., 4D117
 detmn. of 2,8-dihydroxyadenine in, by h.p.l.c., 6D280
 detmn. of 5,6-dihydroxyindole-2-carboxylic acid in, by h.p.l.c. - fluorimetry, 1D133
 detmn. of 9 α ,11 α -dihydroxy-15-oxo-2,3,4,5,20-pentanor-19-carboxy-prostanoic acid in, by g.c. - m.s., 9D127
 detmn. of 4,6-dioxoheptanoic acid in, by g.c. as oxime - TMS derivatives, 11D130
 detmn. of dopa metabolites in, by h.p.l.c., 10D156
 detmn. of doxepin and its metabolites in, by t.l.c. and g.l.c., 3D57
 detmn. of doxorubicin in, by h.p.l.c. and r.i.a., 8D40
 detmn. of doxylamine in, by h.p.l.c. and g.l.c., 10D105
 detmn. of drugs in, 7D37
 by g.l.c. - c.e.d., 2D49
 by t.l.c., 4D65
 by t.l.c. on reversed-phase bonded silica, 3E33
 detmn. of elements in, by ICP a.e.s., 1D17
 detmn. of 4'-epidoxorubicin in, by h.p.l.c., 10D74
 detmn. of erythromycin in, by h.p.l.c., 5D56
 detmn. of ethambutol, ethionamide and rifampicin in, by ion-pair extraction - spectrophotometry, 4E58
 detmn. of ethanol in, by g.c., 6D138
 by oxidation - reduction - g.c., 10D116
 review, 6D137
 detmn. of ethanol in, by g.c., in study of blood alcohol content, 11D109
 detmn. of ethinyloestradiol in, by r.i.a., 11D61
 detmn. of 2-ethyl-3-oxohexanoic acid in, by g.c. - m.s., 4D154
 detmn. of etoposide and teniposide in, by h.p.l.c., 4D128
 by reversed-phase h.p.l.c., 8J29
 detmn. of ferrioxamine-bound iron in, colorimetric, 8D31
 detmn. of fluoride in, with ion-selective electrode, proposed Pharmacopoeial method for, 4D58
 detmn. of flupirtine in, by h.p.l.c., 8D46
 detmn. of formaldehyde in, by radiometry with carbon-14-labelled dimedone, 2D132
 detmn. of fostedil in, by h.p.l.c., 8D90
 detmn. of galantamine in, by h.p.l.c., 2D89
 detmn. of gemfibrozil and its benzoic acid metabolite in, by g.l.c., 12D104
 detmn. of gentisic acid in, of patients receiving aspirin, by h.p.l.c., 11D72
 detmn. of D-glucaric acid in, by h.p.l.c., 2D133, 7D119
 detmn. of glucose in, by Clinistest method, interference by antibiotics in, 8D109
 interference by cefapirin sodium in, 12D116
 by reagent strip method, 6D149, 6D150
 enzyme electrode in, 10J145
 with test strips, effects of antibiotics on, 11D121
 detmn. of γ -glutamyltransferase in, by r.i.a., 1D208
 detmn. of guaiphenesin glucuronides in, by h.p.l.c., 12D93
 detmn. of guanidino-compounds in, by automated cation-exchange h.p.l.c., 9D168
 detmn. of hexosamines in, by h.p.l.c., 6D151
 detmn. of hippuric acid and methylhippuric acids in, by h.p.l.c., 2D176
 detmn. of histamine in, by chemical-ionization m.s., 3D133
 by fluorimetry and radioenzyme assay, 3D135
 by g.c. - m.s., 9D163
 detmn. of human chorionic gonadotrophin in, by homogeneous gold-sol particle immunoassay, 8D208
 detmn. of hydrochlorothiazide in, by h.p.l.c., 12D102
 by t.l.c. - spectrophotometry, 8D87
 detmn. of hydrocortisone in, by affinity chromatography - h.p.l.c., 4D193
 by immunoassay - c.s.r., 1D116
 by spin immunoassay, 7D147
 detmn. of 17 β -hydroxyandrost-1,4-dien-3-one in, by m.s., 1D46
 detmn. of 17-hydroxycorticosteroids in, automated, 4D194
 by spectrophotometry, interference by cefoxitin in, 1D117
 detmn. of 5-hydroxyindol-3-yllactic acid in, by h.p.l.c., 1C3
 detmn. of hydroxylaminogluthethimide in, by m.s., 7D88
 detmn. of 4-hydroxy-3-methoxy- and 4-hydroxy-mandelic acid in, by spectrophotometry, 1D95

Urine—continued

- detmn. of 4-hydroxy-3-methoxymandelic acid in, 1D96
 by h.p.l.c., 2D136
 spectrophotometric, 3D104
 detmn. of 5-(1-hydroxy-2-[2-(2-methoxyphenoxy)ethylamino]ethyl)-2-methylbenzenesulphonamide hydrochloride in, by g.l.c., 2D92
 detmn. of 4-hydroxy-3-methoxyphenylethanedil in, by h.p.l.c., 11D157
 by h.p.l.c. with c.e.d., 8D150
 by liquid chromatography, 1D93
 detmn. of 3 α -hydroxy-1-methylene-5 α -androstan-17-one in, by isotope-dilution m.s., 4D85
 detmn. of erythro-9-(2-hydroxy-3-nonyl)hypoxanthine in, by r.i.a., 3D78
 detmn. of hydroxyphenytoin in, by h.p.l.c., 2D62
 detmn. of 4'-hydroxypropranolol sulphate in, by h.p.l.c., 8D67
 detmn. of hydroxysteroids in, immobilized hydroxysteroid dehydrogenases in continuous-flow automated, 9D99
 detmn. of 7-hydroxytrifluoperazine in, by m.s., 8D51
 detmn. of hypoxanthine and xanthine in, by h.p.l.c. with enzyme reactors, 5D226
 detmn. of ifosfamide in, by g.l.c., 2D110
 detmn. of imipramine and desipramine in, by t.l.c., 6D99
 detmn. of indenolol in, by h.p.l.c., 7D79
 detmn. of indomethacin and its *O*-demethyl metabolite in, by g.l.c., 6D87
 detmn. of indomethacin and its metabolites in, by h.p.l.c., 11D70
 detmn. of iodide in, with selective electrode, interference by chloride in, 1D32
 detmn. of iron in, spectrophotometric, 9D35
 detmn. of isoniazid and acetylisoniazid in, by h.p.l.c., 6D119
 detmn. of isoprenaline sulphate in, by h.p.l.c., 11D87
 detmn. of isosorbide 2- and 5-nitrate in, by g.c. - c.e.d., 8D69
 detmn. of isosorbide in, by g.l.c., 6D65
 detmn. of isoxicam in, by h.p.l.c., 8D63
 detmn. of β -lactam antibiotics in, by t.l.c. and spectrophotometry, 8D38
 detmn. of lactulose in, enzymic, 10D118
 detmn. of lead in, by flame a.f.s., 6D42
 detmn. of loxidine and lantidine in, by r.i.a., 5D89
 detmn. of luteinizing hormone in, by sandwich enzyme immunoassay, 12D178
 detmn. of macrogols in, by g.l.c., 6D131
 detmn. of magnesium in, by colorimetry, centrifugal analyser in, 7D23
 magnesium-26 in m.s., 12D20
 detmn. of manganese, nickel, copper and zinc in, by XRF after pre-concentration, 4D59
 detmn. of maprotiline and *N*-desmethylmaprotiline in, by h.p.l.c., 3D59
 detmn. of maprotiline in, by t.l.c. - fluorimetry, 9D69
 detmn. of MDL 19,205 in, by h.p.l.c., 7D81
 detmn. of mercury in, by graphite-furnace a.a.s., 8D23
 gold-film detector for, 4D40
 with automatic analyser, gold-film detector for, 2D27
 detmn. of metals in, by ICP a.e.s., 4D22
 detmn. of methadone and opiates in, interference by doxylamine in, 5D58
 detmn. of methadone in, by r.i.a., 3D51
 detmn. of 3-methoxy-4-sulphonyloxyphenylethanedil in, by g.l.c., 9D157
 detmn. of 3-*O*-methyl-adrenaline and -noradrenaline in, by h.p.l.c., 7D158
 detmn. of 3-*O*-methyladrenaline in, by spectrophotometry, interference by drugs in, 5D76
 detmn. of methylamines in, by g.l.c., 5D174
 detmn. of 4-(methylamino)antipyrine in, by h.p.l.c., 6D84
 detmn. of methylamphetamine and its metabolites in, by g.l.c., 8D58
 detmn. of methylamphetamine in, by colorimetry, 3D63
 by enzyme immunoassay, 5D71
 by r.i.a., 11D81
 detmn. of methylcarbamates and organophosphorus pesticides in, by g.l.c., 3D86
 detmn. of *N*-methyl derivatives of nicotine in, by h.p.l.c., 11D45
 detmn. of *N*⁶-methylhistamine in, by g.l.c., 2D171
 detmn. of methylmalonic acid in, by g.c. - m.s., 6D159
 detmn. of methylmercury in, by a.e.s., 5J94
 detmn. of *N*⁶-methylnicotinamide in, by h.p.l.c., 11D226
 detmn. of 3-*O*-methylnoradrenaline, 3-*O*-methyladrenaline and 3-methoxytyramine in, by h.p.l.c., 5D74
 detmn. of metoclopramide in, by h.p.l.c., 10D104
 detmn. of mitomycin in, by differential pulse polarography, 8D42
 by h.p.l.c., extraction method for, 11D59, 11D60
 detmn. of mitoxantrone in, by h.p.l.c. with electrochemical detection, 8D84
 detmn. of molybdenum in, by spectrophotometry, 7B100
 detmn. of morphine in, by haemagglutination, 11D40
 detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
 detmn. of nicotine, caffeine and malathion in, 7D38
 detmn. of nitrate in, by g.c. with f.i.d. or thermal energy analyser, 8D29
 detmn. of 5-nitroimidazole antimicrobials in, by g.l.c., 9D91

Urine—continued

- detmn. of 4-nitrophenol conjugates in, by h.p.l.c., after poisoning by parathion, 11D113
- detmn. of nitrosamines in, by g.c., 3D138
- detmn. of 4-(N-nitrosobutylamino)butanol in, differential pulse polarographic, 10C26
- detmn. of N-nitroso-compounds in, by h.p.l.c. with photo-hydrolysis detection, 6D141
- detmn. of N-nitrosodibutylamine, 4-(N-nitrosobutylamino)butanol and 4-(N-nitrosobutylamino)butyric acid in, by h.p.l.c., 4D138
- detmn. of nitrosopiperazines in, by g.l.c., 5D94
- detmn. of N-methylimidazol-4-ylacetic acid in, by g.l.c., 11D163
- detmn. of nomifensine and its metabolites in, by t.l.c., 2D83
- detmn. of 19-nor-deoxycorticosterone in, by r.i.a., 12D144
- detmn. of norfloxacin in, by ion-pair reversed-phase chromatography, 9D52
- detmn. of 11-nor- Δ^9 -tetrahydrocannabinol-9-carboxylic acid in, by g.l.c. - e.c.d., 10D63
- by h.p.l.c., 8D36
- detmn. of novel anticancer thiaziazadiphosphorine derivative in, by g.l.c., 9D94
- detmn. of odorous compounds in porcine, 8D10
- detmn. of oestradiol 3-glucuronide in, by r.i.a., 8D135
- detmn. of oestril 16 α -glucuronide in, by ligand differentiation immunoassay, 3D117
- detmn. of oestril in, by h.p.l.c., 5D148
- detmn. of oestrogens in, by homogeneous enzyme immunoassay, 12D140
- by h.p.l.c., 5D150
- by r.i.a., 4D187
- detmn. of oestrone and oestradiol in, by bioluminescence, 7D144
- detmn. of oestrone 3-glucuronide and pregnanediol 3 α -glucuronide in, by immunoassay, 4D182
- detmn. of olitipraz in, by g.l.c., 9D92
- detmn. of omeprazole and its sulphone and sulphide metabolites in, by h.p.l.c., 7D92
- detmn. of opium-derived and other analgesics and their metabolites in, by g.c. - m.s., 11D39
- detmn. of organic acids in, by g.c. of TMS derivatives, 11D129
- by g.l.c., 6D160
- by ion-exclusion chromatography, 6D158
- review, 7D122
- detmn. of organic mercury in, by sodium tetrahydroborate reduction, 9D25
- detmn. of organotin and organosulphur compounds in, by purge-and-trap g.c. - flame photometry, 7D100
- detmn. of oxalate in, 6D164
- by electrogenerated chemiluminescence, 7D120
- by g.c., 9D124
- enzymic, 3D103, 4D157, 4D159
- detmn. of oxalate in human, by h.p.l.c., 12D120
- detmn. of oximetidine in, by h.p.l.c., 8D79
- detmn. of oxo-acids in, 4D162
- detmn. of 2-oxo-acids in, by h.p.l.c., as quinoxalinol derivatives, 8D113
- detmn. of 6-oxo-prostaglandin $F_{1\alpha}$ and thromboxane B_2 in, by h.p.l.c. and r.i.a., 11D132
- detmn. of oxyphenonium in, by radioreceptor assay, 11D95
- detmn. of paraquat and diquat in, by g.c., 9D105
- detmn. of paraquat in, by colorimetry after Sep-Pak C_{18} extraction, 7D101
- detmn. of parathion and aminoparathion in, by t.l.c. and g.l.c., 3D87
- detmn. of penbutolol and its 4-hydroxy-metabolite in, by h.p.l.c., 12D89
- detmn. of pentacarboxylic porphyrins derived from uroporphyrinogen III in, by h.p.l.c., 7D210
- detmn. of pentachlorophenol in, by h.p.l.c., 11H70
- detmn. of phenazone and its metabolites in, by automated h.p.l.c., 7D62
- detmn. of phencyclidine and hydroxylated metabolites in, by g.l.c., 4D97
- detmn. of phencyclidine and its metabolites in, by g.l.c., 10D88
- detmn. of phenol and its conjugates in, by h.p.l.c., 8D95
- detmn. of phenolic hydroxy-acids in, by h.p.l.c., 11D128
- detmn. of phenols in, by g.l.c. as acetate or propionate esters, 8D97
- detmn. of phenothiazine derivatives in, by oxidation in aq. and nitromethane soln., 8D54
- detmn. of phenylacetic acid in, by g.l.c., 9D114
- detmn. of phenylalanine and tyrosine in, by h.p.l.c., 8D166
- detmn. of phenylpropanolamine in, by h.p.l.c., 4D115, 9D77
- detmn. of phenytoin and hydroxyphenytoin in, by h.p.l.c., 2D64
- detmn. of phenytoin and its metabolites in, by h.p.l.c. and t.l.c., 6D80
- detmn. of picobenzide N-oxide in, by differential pulse polarography, 4D104
- detmn. of piperacillin in, by liquid chromatography, 8D37
- detmn. of piroxicam in, by h.p.l.c., 2D88
- detmn. of placental oestriol in, by g.c. and h.p.l.c., 7D143
- detmn. of polyamines in, by capillary g.c., 12D160
- by electrophoresis, 1D131
- by h.p.l.c., 6D203
- by ion-exchange chromatography, 4D212

Urine, detmn. of polyamines in,—continued

- h.p.l.c. and enzymic, 9D171
- detmn. of polyhydric alcohols in, by g.c. - m.s., 6D152
- detmn. of porphyrins in, by chromatography, sample preparation procedure for, 9D225
- by h.p.l.c., 6D270
- by h.p.l.c. on tributyl phosphate-treated column, 2D212
- by magnetic circular dichroism, 10D221
- detmn. of potassium in, by direct potentiometry, errors in use of valinomycin electrodes for, 4D29
- detmn. of prealbumin in, by r.i.a., 6D250
- detmn. of 5 β -pregnane-3 α ,20 α -diol 3 α -glucuronide in, by fluorescent enzyme immunoassay, 9D140
- detmn. of prenatalol in, by h.p.l.c., 12D90
- detmn. of primaquine in, by h.p.l.c., 8D83
- detmn. of procainamide and N-acetylprocainamide in, by t.l.c., 6D110
- detmn. of proinsulin C-peptide in, by r.i.a., review, 6D228
- detmn. of propane-1,2-diol in, by g.l.c., 7D98
- detmn. of prostaglandin E_2 and its main metabolite in, by h.p.l.c., 6D169
- detmn. of prostaglandin E_2 in, by g.c. - m.s., 11D133
- by r.i.a., 8D119
- detmn. of proteins in, 7D191
- automated continuous-flow, 6D233
- by automated Coomassie blue dye-binding method, 1D156
- by Coomassie brilliant blue method, precision of, 4D241
- by electrophoresis, 2J33
- by immunoassay, 1D154
- by isoelectric focusing, 10D186
- by precipitant - dye method, 1D155
- by spectrophotometry, 8D198
- by turbidimetry, pptn. reagent for, 10D185
- dye-binding method for, 6D242
- detmn. of pteridines in, by h.p.l.c., 9D248
- detmn. of pterins in, by h.p.l.c., 7D232
- detmn. of purine and pyrimidine nucleosides and bases in, by h.p.l.c., 10D238
- detmn. of pyrimethamine in, by g.c., 11D104
- detmn. of quinine and strychnine in, by spectrophotometry, 5D49
- detmn. of quinine in, by liquid chromatography, 3D33
- detmn. of racemic forms of labetalol in, by g.l.c. as butaneboronates, 6E50
- detmn. of radium-226 in, by co-pptn. and α -counting, 5D21
- detmn. of retinol-binding protein in, by enzyme-linked immunosorbent assay, 4D195
- detmn. of 2- β -D-ribofuranosylthiazole-4-carboxamide in, by h.p.l.c., 2D108
- detmn. of riboxamide in, by h.p.l.c., 12D98
- detmn. of ritalinic acid in, by g.c. or t.l.c., 11D82
- detmn. of Ro 13-6438 in, by h.p.l.c., 8D71
- detmn. of selenium in, by a.a.s., 5D33
- by isotope-dilution g.c. - m.s., 5D34
- detmn. of sodium, potassium, chloride and creatinine in, sample stability in, 6D29
- potassium and creatinine in, after collection on filter-paper, 6D22
- detmn. of sodium and potassium in, by ion-selective electrode, 5J171
- by potentiometry, 1D12
- ion-selective-electrode analyser for, 9D18
- detmn. of sodium cromoglycate in, by h.p.l.c., 8D80
- detmn. of sodium in, by potentiometry, 9D13
- electrode for, 2D13
- detmn. of sparsomycin in, by h.p.l.c., 2D58
- detmn. of steroids and corticosteroids in equine, by derivatization - g.c. - m.s., 10D77
- detmn. of steroids in, by g.c., 11D144
- by liquid chromatography - m.s., 4J32
- by r.i.a., review, 8F25
- detmn. of steroid sulphates and glucuronides in, by m.s., 4D180
- detmn. of stilboestrol in, by h.p.l.c., fluorimetric detection in, 2F17
- detmn. of stilboestrol in bovine, by g.l.c., 4D134
- detmn. of strontium-90 in, by extraction - scintillation counting, 12D23
- detmn. of sulmazole and its metabolites in, by h.p.l.c., 7D80
- detmn. of sulphasalazine and sodium azodisalicylate in, by h.p.l.c., 9D75
- detmn. of sulphinpyrazone and metabolites in, by h.p.l.c., 6D129
- detmn. of S-sulphocysteine in, by h.p.l.c., 4D226
- detmn. of Tanax constituents in, by t.l.c. and spectrophotometry, 8D99
- detmn. of taurine in, by g.l.c., 11D176
- fluorimetric, 8D169
- detmn. of technetium-99 in, gas proportional counter in, 4D60
- detmn. of teniposide and etoposide and their metabolites in, by h.p.l.c. with electrochemical detection, 9D98
- detmn. of testolactone and its 4,5-dihydro-metabolite in, by h.p.l.c., 6D71
- detmn. of testosterone glucuronide in, by solid-phase chemiluminescent immunoassay, 4D189
- detmn. of 3,3',4,4'-tetrachlorobiphenyl in rat, by g.l.c., 5D109
- detmn. of Δ^9 -tetrahydrocannabinol-11-carboxylic acid in, by g.c. - m.s., 3D36
- by h.p.l.c. and g.l.c., 11D48

Urine—continued

- detmn. of Δ^9 -tetrahydrocannabinol in, by r.i.a., 10D64
 detmn. of Δ^9 -tetrahydrocannabinol metabolites in, by h.p.l.c. - r.i.a., 10D65
 detmn. of 4'-O-tetrahydropyranyldoxorubicin in, by h.p.l.c., 8D43
 detmn. of 6 β ,11,17,21-tetrahydroxypregn-4-ene-3,20-dione in, by h.p.l.c., 7D150
 detmn. of thallium in, by a.a.s., 12D35
 by differential pulse anodic-stripping voltammetry and flameless a.a.s., 3D20
 chemical and by a.a.s., 12D34
 electrode for, 9D28
 detmn. of thiocetazone in, by h.p.l.c., 4D126
 detmn. of thiamine in, by h.p.l.c., 5E29
 detmn. of 2,2'-thiodi(acetic acid) in, by g.l.c., as indicator of exposure to vinyl chloride, 4D140
 detmn. of thiomalate in, by h.p.l.c., 3D77
 detmn. of thyronine in, by g.c. - m.s., 11D172
 detmn. of tin in, by anodic-stripping voltammetry, 7D30
 detmn. of tiquizum bromide in, by h.p.l.c., 10D98
 detmn. of total phthalate in, by g.c., 10D124
 detmn. of total platinum in, by differential pulse polarography, 5D39
 detmn. of total protein in, by biuret method, ultra-filtration blank in, 10D182
 detmn. of trace arsenic in, by electrothermal a.a.s., 9H51
 detmn. of trace elements in, by a.a.s., 12D12
 by n.a.a., 4D24
 detmn. of triamcinolone in, by h.p.l.c., pre-treatment in, 1D55
 detmn. of triamterene, its metabolites and hydrochlorothiazide in, by h.p.l.c. with flow programming, 7D90
 detmn. of tri- and tetra-chloroethylene and their metabolites in, by g.l.c., 6D139
 detmn. of trifluoroacetate in, by h.p.l.c., 8D61
 detmn. of trifluoroacetic acid in, by isotachopheresis, computerized optimization of, 9D73
 detmn. of trimethoprim, its metabolites and their conjugates in, by h.p.l.c., 9D90
 detmn. of trimethylamine in, by g.l.c., as marker for bacterial growth, 12D162
 by m.s., 9D169
 detmn. of tritium in, by liquid scintillation, 1D11
 detmn. of turinabol and its metabolites in, by g.c. and g.c. - m.s., 3D73
 detmn. of uranium, plutonium and transplutonium elements in, isolation method for, 7D28
 detmn. of uranium in, calibration source for, 8D26
 detmn. of urapidil and its metabolites in, by h.p.l.c., 7D82
 detmn. of urate in, by h.p.l.c., 10D241
 detmn. of urea in, with enzyme reactor and second-derivative spectrophotometry, 2D160
 detmn. of urea-nitrogen in, with Beckman ASTRA analyser, 1D123
 detmn. of uric acid in chicken, by h.p.l.c., 10D242
 detmn. of urochlorallic acid in, by g.l.c., 12D85
 detmn. of uroporphyrin, coproporphyrin, 5-aminolaevulinic acid and porphobilinogen in, 4D273
 detmn. of vanadium in, by electrothermal a.a.s. and d.c. plasma a.e.s., 12D41
 detmn. of verapamil in, by h.p.l.c., 2D94
 detmn. of viloxazine in, by h.p.l.c., 7D70
 detmn. of xanthine, hypoxanthine and uric acid in, by h.p.l.c., 4D288
 detmn. of xylose in, by capillary-column g.c., 10D121
 detmn. of zinc in, by a.a.s., contamination from collection tubes in, 4D35
 detmn. of zomepirac in, by h.p.l.c., 2D74
 detn. of morphine in, by haemagglutination inhibition, 1D41
 extraction of adrenaline and noradrenaline from, by adsorption on alumina, 5D168
 extraction of amphetamines and ephedrine from, with Sep-Pak C₁₈, 4D110
 extraction of bile acids from, ion-pair, 6D197
 extraction of caesium-137 and strontium-90 from, with cobalt dicarbollide, 5D18
 extraction of cholecalciferol from, evaluation of Sep-Pak C₁₈ cartridges for, 4D292
 extraction of heptacaine from, 4D113
 extraction of local anaesthetics from, by adsorption on C₁₈ silica gel, 10D97
 extraction of oestrogens from, with Sep-Pak C₁₈, 8D138
 extraction of pentacaine from, 11D85
 identn. of N²-acetylarginine in, by desorption chemical-ionization m.s., 12D164
 identn. of amino-acids in, for detection of aspartylglucosaminuria and fucosidosis in, 5D175
 identn. of anabolic steroids in, by g.l.c. - m.s., 6D125
 identn. of Bence Jones protein in, interference by cloxacillin in, 1D169
 identn. of bile alcohols in human, by g.c. - m.s., 12D118
 identn. of cocaine metabolites in, by g.c. and m.s., 10D56
 identn. of doxylamine and mepyramine in, 8D78
 identn. of drugs in, by g.l.c. and t.l.c., 5D40
 identn. of propafenone metabolite in, by g.l.c. and g.c. - m.s., 5D82
 identn. of valproic acid metabolites in human, by g.c. - m.s., 7D59

Urine—continued

- identn. of volatile and organic acid metabolites in, by g.l.c., 11D8
 measurement of sp. gr. of, test strip for, 2D4
 profiling of carboxylic acids in, by g.l.c., 5D127
 sampling of volatile compounds in, for g.c., 7D7
 sepn. of benzodiazepine glucuronides in, by h.p.l.c., 11D77
 sepn. of 1-benzyl-4-picolinoylpiperazine and its metabolites in, by h.p.l.c., 3D60
 sepn. of chloroquine and de-ethylchloroquine in, by h.p.l.c., 3D70
 sepn. of *cis*-diol ribonucleosides in, by affinity chromatography - h.p.l.c., 7D223
 sepn. of drug - glucuronide conjugates from, by h.p.l.c., 8D44
 sepn. of guanidino-compounds in, by automated ion exchange - fluorimetry, 9D238
 sepn. of metabolites of xenobiotics in, by ion-exchange chromatography, 2D123
 sepn. of methylamphetamine and amphetamine in, by column chromatography, 5D70
 sepn. of paracetamol metabolites in, by h.p.l.c., 11D69
 sepn. of porphyrin-carboxylic acids in, by t.l.c., 10D223
 sepn. of porphyrins in, by h.p.l.c., 4D268, 4D269
 sepn. of proteins in, by Fast Protein Liquid Chromatography, 4D239
 by ion-exchange chromatography, 3D201
 sepn. of ring-hydroxylated propranolol derivatives in, by g.c. - m.s., 6D106
 sodium, potassium and creatinine in, storage of, on filter-paper, 6D21
Urobilinogen, detmn. of, in urine, with test strips, review, 1D2
Urochlorallic acid, detmn. of, in plasma, urine or liver, by g.l.c., 12D85
Uronic acids, detmn. of, by colorimetry, automated analyser for, 1D97
 by h.p.l.c., 5D118
 in alginates, by h.p.l.c., 1D90, 3D95
Uronides, detmn. of, in plants, by molecular-absorption spectrometry, a.a.s. and g.c., 5F35
Uroporphyrinogen I synthase, assay of, in dried blood, by fluorimetry, 10D262
Uroporphyrins, detmn. of, in urine, 4D273
 sepn. of, in urine, by h.p.l.c., 4D268
 sepn. of isomers of, by reversed-phase h.p.l.c., 7D209
Ursodeoxycholic acid, analysis of reaction products in synthesis of, by h.p.l.c., 5D162
 detmn. of, in bile, enzymic, 8D143
 in drugs, cholate membrane electrode for, 6E21
Urushiol, analysis of, from sap of *Rhus vernicifera*, by h.p.l.c., 9D109
Uterine tissue, detmn. of trace elements in, by PIXE, 5D36
- V
- Vaccines**, detmn. of water in freeze-dried, by vapour-phase stripping - titrimetry, 12E5
Vaccinium myrtillus, detmn. of anthocyanins in, by g.l.c. and h.p.l.c., 6E19
Vaginal fluid, identn. of acid phosphatase in, by isoelectric focusing, 1D213
Valepotriates, detmn. of, in valerian root and commercial drugs, by spectrophotometry, 6E22
Valeriana spp., detmn. of valepotriates in, by spectrophotometry, 6E22
Valine, detection of enantiomers of, by ligand chromatography, 6D218
 sepn. of enantiomers of, selective transport with crown ethers in, 12D168
Valinomycin, detmn. of, by voltammetry, 6E29
 membrane electrodes for, 11J136
Valproic acid, detection of doubly unsaturated metabolites of, in urine and plasma, by g.c. - m.s., 12D77
 detmn. of, in plasma, 6D77
 by g.c., 3D47
 in plasma and serum, by enzyme-multiplied immunoassay, ultra-filtration in, 1D49
 in saliva and serum, by g.c. - m.s., 11D68
 in serum, by EMIT, 10D87
 by g.l.c., 6D81
 by semi-automated enzyme immunoassay, 4D90
 EMIT filtration and assay systems for, 10D84
 in serum and anticoagulant-treated plasma, by enzyme-multiplied immunoassay, 4D88
 together with deuterated analogues, in blood plasma, by g.l.c., 4D95
 identn. of metabolites of, in human serum and urine, by g.c. - m.s., 7D59
Vanadate, identn. of, by paper chromatography, 11B15
Vanadium, analysis of, review, 6B119
 detection of, primaquine in colorimetric, 9B125
 detmn. of, as complex with propane-1,2-diaminetetra-acetic acid, by cyclic voltammetry, 10B106
 as dioxo-cation, spectrophotometric, 8B87
 by a.a.s., graphite cells for, 10J90
 by colorimetry of dibenzylidithiocarbamate-complex, 4B126
 by polarography, as complex with propane-1,2-diaminetetra-acetate, 5B182
 by reduction - indirect potentiometry, 8B82
 by spectrography, effect of zirconium on, 5B202

Vanadium, detmn. of.—*continued*

- by spectrophotometry, 1B90
- by spectrophotometry with chlorosulphophenol S, 5B181
- by spectrophotometry with *N,N'*-dihydroxyisophthalamide, 5B180
- by spectrophotometry with pyrogallol red, 5B177
- catechol violet - chlorpromazine in spectrophotometric, 3B70
- N*-(4-chlorophenyl)-*N*-hydroxy-*N'*-(2,3-xylyl)benzamide and thiocyanate in extraction - spectrophotometric, 12B113
- N'*-(5-chloro-*o*-tolyl)-*N*-hydroxy-*N*-methyl-*p*-toluamide hydrochloride in spectrophotometric, 10B110
- Chrome Azurol S and hexadecyltrimethylammonium bromide in spectrophotometric, 10B108
- C. I. Mordant Blue 3 in spectrophotometric, 3B10
- cinnamohydroxamic acids in spectrophotometric, 2B4
- α -ethyl-1-hydroxynaphthaldoxime in spectrophotometric, 10B109
- in air, by d.c. plasma a.e.s., 5H24
- by PIXE, 10H3
- in air polluted by road traffic, 5H15
- in alumina, by solvent extraction - photometry, 12B56
- in aluminum alloys, by intermittent-arc spectroscopy, 12B57
- in bone, by ICP a.e.s., 2D10
- in brines and water, by a.a.s., 4H64
- in coal fly ash, by a.a.s., 7B147
- in ferronickel, by extraction - polarography, 9B151
- in fly ash, by ICP a.e.s., 12J99
- in fuel oil and stack gases, spectrophotometric, 10C60
- in glass, by spectrophotometry, 7B148
- in high-purity inorganic compounds, kinetic, 6B18
- in lanthanoid oxides, by spectroscopy, pre-concentration procedure for, 4B80
- in magnetite, by a.a.s., 2B63
- in minerals, by laser micro-spectroscopy, standards for, 5B229
- in nickel-production samples, by spectrophotometry, 6B168
- in niobium pentoxide or niobium pentachloride, by spectrophotometry, 8B88
- in ores, by titrimetry, 4B145
- spectrophotometric, 10B105
- in organosilicon compounds, by a.a.s., 4C33
- in phosphate rock reference material, 5A16
- in platinum, by spectroscopy, after electrolytic sepn., 2B83
- in presence of chromium, by n.a.a., 11B110
- in presence of thiocyanate, by spectrophotometry, 5B178
- in presence of titanium, by spectrophotometry, 11B98
- in red mud, review, 1B47
- in sea-water, by a.a.s., 5H62
- in steel, by pptn. and XRF, 9B148
- by spectroscopy, hollow-cathode discharge tube for, 5B235
- by spectrophotometry, 1B89, 7B92
- substituted diarylbenzamidines in, 2B64
- ilmenite and bauxite, by spectrophotometry, 4B167
- spectrophotometric, 10B147
- in titanium alloys, by ICP a.e.s., 12B94
- in urine and serum, by electrothermal a.a.s. and d.c. plasma a.e.s., 12D41
- in water, catalytic - spectrophotometric, 6H61
- in estimation of pollution potential of oil shale, 1C25
- N*-phenylcinnamohydroxamic acid and 4-chlorophenol in spectrophotometric, 5B179
- salicylaldehyde thiosemicarbazone in spectrophotometric, 6B120
- salicylohydroxamic acid and thiocyanate in spectrophotometric, 7B91
- salicylohydroxamic acid in spectrophotometric, 10B107
- spectrophotometric, 8B86
- detmn. of dissolved and particulate, in sea-water, by XRF, 5H58
- detmn. of trace, in food and biological reference materials, by n.a.a., 9F4
- in liquid samples, pre-concentration method for, 9B8
- extraction of, from steel, with 2,2-dipropylpropane-1,3-diol, 11B143
- pre-concentration of, by sorption on ferric oxide, 5B19
- sepn. of, from molybdenum, resin for, 5B203
- from nickel and cobalt, extractant for, 8B18
- sepn. of β -diketone complexes of, by t.l.c., 5B14
- Vanadium alloys**, detmn. of titanium in, by spectrophotometry, 5B150
- detmn. of tungsten in, X-ray, 11B117
- Vanadium(III)**, detmn. of, in presence of vanadium^{IV} by amperometric titration with galloyanine, 4B127
- Vanadium(IV)**, detmn. of, in presence of vanadium^{III}, by amperometric titration with galloyanine, 4B127
- Vancomycin**, detmn. of, by amperometry with copper^{II}, 6E31
- in serum, by fluorescence polarization immunoassay, 4D83, 10D76
- by h.p.l.c., 11D56
- by r.i.a. and fluorescence polarization immunoassay, 10D73
- Vanilla**, detmn. of vanillin in pods of, by g.c. - m.s., h.p.l.c. or m.s. - m.s., 9F14
- Vanillic acid**, detmn. of, in beer and brewing materials, by extraction - h.p.l.c., 12F34
- in biological material, by ion-pair h.p.l.c., 10D128
- in rapeseed flour, by g.l.c., 9G10
- sepn. of, by h.p.l.c., 1G2
- by t.l.c., mobile phases for, 5C45
- Vanillin**, detection of natural, by carbon-isotope m.s., 6F17

Vanillin—*continued*

- detmn. of, by condensation with acetone, 12C31
- in vanilla pods, by g.c. - m.s., h.p.l.c. or m.s. - m.s., 9F14
- stability testing of, in pharmaceutical preparations, by t.l.c. and d.t.a., 3E41
- , **ethyl**-, detmn. of, in urine, by g.l.c., 6D204
- Varnishes**, analysis of, by FT i.r. spectrophotometry, 4C97
- detmn. of zirconium in, by spectrophotometry, reagent for, 2C75
- Vas deferens**, detmn. of adenosine and adenine nucleotides in, by h.p.l.c., 11D219
- detmn. of noradrenaline and its metabolites in, by h.p.l.c., 2D167
- Vasopressin**, detmn. of, in brain, by r.i.a., 2D190
- , **arginine**-, detmn. of, in plasma, by r.i.a., 5D187, 9D193
- by r.i.a. after purification, 6D226
- in plasma and urine, by r.i.a., 9D197
- Vegetable juices**, detmn. of carboxylic acids in, by h.p.l.c., 11F31
- detmn. of total ascorbic acid in, by difference spectrometry, 9F38
- Vegetable oils**, analysis of, by g.c. and h.p.l.c., 10F72
- by pyrolysis - g.c. - m.s., 6F82
- analysis of triglycerides of, by reversed-phase h.p.l.c., injection solvent effect on, 10F69
- characterization of, by g.l.c., 6C33
- detection of fatty acids in, by g.l.c., 6J101
- detmn. of *cis*- and *trans*-unsaturation of, by g.c. of epoxy-derivatives, 5F57
- detmn. of aniline and fatty acid anilides in, by spectrophotometry, 6F78
- detmn. of antioxidants in, by g.l.c., 8F67
- detmn. of BHA in, by spectrophotometry, 6C20
- detmn. of brominated, in soft drinks, by acid methanolysis - g.c., 7F81
- detmn. of cyclic monomers in heated, review, 9F52
- detmn. of fatty acid anilides in, by g.c., 2F46
- by h.p.l.c. or g.c., 5F58
- detmn. of fatty acids in, by h.p.l.c., 1F21
- detmn. of geometric and positional isomers of fatty acids in, by i.r. and u.v. spectrophotometry, 5F55
- detmn. of mineral oil in, by t.l.c., 5F54
- detmn. of PAH in, by t.l.c., 10F71
- detmn. of *t*-butylquinol in, by h.p.l.c., 9F17
- detmn. of triglycerides in, by derivatization - spectrophotometry, 11D139
- by h.p.l.c., 11F40
- identn. of pesticide residues in by-products of, by g.c., 10F74
- Vegetables**, analysis of New Zealand, 7F68
- detection of choline in, by t.l.c., 1D134
- detection of pesticides in, by g.l.c., 3F6
- detmn. of alachlor residues in, by capillary g.c., 9G19
- detmn. of ametryne and metabolites in tropical root, by g.c., 12G8
- detmn. of ascorbic acid in, by h.p.l.c., 10F49
- detmn. of ascorbic acid in fresh, by liquid chromatography, micro-fluorimetry or dye titration, 7F67
- detmn. of carbaryl residues in, spectrophotometric, 10F50
- detmn. of carbofuran residues in, by g.c. - m.s., 6G33
- detmn. of carotenes in, 3F5
- detmn. of chlorophylls in, review, 7F72
- detmn. of cyclopiazonic acid in, by t.l.c., 5F37
- detmn. of dietary fibre in, 8F6
- detmn. of fat in, extraction methods for, 9F37
- detmn. of fungicides in, by g.c. - a.a.s., 3G18
- detmn. of imidazolidine-2-thione residues in, by h.p.l.c., 9G23
- detmn. of insoluble and soluble dietary fibre in, gravimetric, 9F8
- detmn. of iron, manganese and copper in, X-ray spectroscopic, 6F59
- detmn. of MCPA in, by g.c. and m.s., 5G31
- detmn. of methamidophos on, spectrophotometric, 10G23
- detmn. of *Alternaria* mycotoxins in, by h.p.l.c., 7F18
- detmn. of nitrate and nitrite in, by spectrophotometry, 6H68
- detmn. of nitrite in, spectrophotometric, 10F32
- detmn. of nitrogen in, automated, 8C4
- detmn. of organochlorine and organophosphorus pesticides in, by g.l.c., clean-up procedure for, 4F49
- detmn. of organothiophosphorus pesticides in, by g.l.c., 10G25
- detmn. of paraffin wax and mineral oil on, by g.c. at high temp., 9F39
- detmn. of pesticides and phenolic degradation products in, by g.c., 9G16
- detmn. of pesticides in, by g.l.c. and h.p.l.c., 12G6
- detmn. of phosphoribide *a* and pyrophosphoribide *a* in, by reversed-phase t.l.c., 7D204
- detmn. of propoxur in, spectrophotometric, 8F46
- detmn. of pyrazophos in, spectrophotometric, 12G10
- detmn. of pyrethroid residues in, by g.l.c., 2F32
- detmn. of sodium in, by n.a.a., 6F60
- detmn. of trace elements in raw, by ICP a.e.s., quality assurance in, 11F25
- Venison**, measurement of degree of oxidation of lipids in, by thiobarbituric acid methods, 7F39
- Venom**, detmn. of amino-acids in scorpion, by paper chromatography, 6D213
- Verapamil**, detmn. of, by potentiometry, electrode for, 9J138
- in biological fluids, by h.p.l.c., 2D94
- in plasma, by g.c., fused-silica capillary columns in, 11J57
- Veratridine**, detmn. of, by h.p.l.c., 12E14

Veratrole, analysis of chlorinated isomers of, by capillary g.c., 12C30

Veratrum, identn. of, in snuff, by t.l.c., 4E22

Vermiculium, detmn. of, in *Penicillium vermiculatum* culture media, biological materials and drugs, by h.p.l.c. and t.l.c., 4E27

Verrucaric acid, detmn. of, in mouldy food, by t.l.c., 5F6

Verrucarol, detmn. of, in mouldy food, by t.l.c., 5F6

Versicolorin A, sepn. of, from *Aspergillus*, by h.p.l.c., 9D152

Versiconal hemiacetal acetate, sepn. of, from *Aspergillus*, by h.p.l.c., 9D152

Vicia faba, detmn. of *N*-nitroso-compounds in, by h.p.l.c. with photo-hydrolysis detection, 6D141

sepn. of legumin and vicilin in seeds of, by electrophoresis, 3D205

Vicilin, sepn. of, in *Vicia faba* seeds, by electrophoresis, 3D205

Vigna mungo, assay of glutamate dehydrogenase in, by colorimetry, 3D249

assay of glutamate synthase in, colorimetric, 10D250

Viloxazine, detmn. of, in plasma and urine, by h.p.l.c., 7D70

Vinblastine, detmn. of, by differential pulse voltammetry, 11E6

in tissues, by h.p.l.c., 6D55

Vincadifformine, sepn. of enantiomers of, by inclusion chromatography on β -cyclodextrin bead polymer, 5E12

Vincamine, detmn. of, in pharmaceutical preparations, by h.p.l.c., 5E14

Vincristine, detmn. of, in tissues, by h.p.l.c., 6D55

Vindoline, detmn. of, by differential pulse voltammetry, 11E6

Vinyl alcohol, detmn. of, in vinyl chloride - vinyl acetate - vinyl alcohol terpolymer, i.r., 11C76

Vinyl chloride, detmn. of, by g.c., 7C13

in food, by g.c., calibration of head-space sampling in, 3F4

in surface and potable waters, by g.l.c., 9H70

Viomelaine, detmn. of, in rice, by h.p.l.c., 4F25

Virus, influenza, sepn. of proteins from, by h.p.l.c., 3D193

—, measles, analysis of proteins from, by isoelectric focusing, 3D186

Viruses, column chromatography of, modified packings for, 9D204

Viscose, detmn. of free sodium hydroxide in, titrimetric, 11C72

Vitamin D compounds, detmn. of, inter-laboratory comparison of, 10D243

—, **1,25-dihydroxy-**, detmn. of, in serum, by h.p.l.c., extraction method for, 8D222

—, **25-hydroxy-**, detmn. of, in serum, by h.p.l.c., extraction method for, 8D222

Vitamin D glucuronides, analysis of, by fast-atom-bombardment m.s., 9D11

Vitamin D sulphates, analysis of, by fast-atom-bombardment m.s., 9D11

Vitamin E compounds, detmn. of, in feedstuffs, by h.p.l.c., 6G17

Vitamin K compounds, detmn. of, by h.p.l.c., dual-electrode detector for, 9D242

Vitamins, detection of, by nitrogen-laser-induced two-photon ionization spectrometry, 12D216

detmn. of, in parenteral nutrition soln., by h.p.l.c., 10E20

detmn. of iodine in, by differential pulse polarography, 7F11

detmn. of water-soluble, in multivitamin and mineral tablets, by extraction - h.p.l.c., 9E31

sepn. of fat-soluble, by micro-column h.p.l.c., 9J16

t.l.c. of, 5J47

Vitexin, detmn. of, in hawthorn, by h.p.l.c. and t.l.c., 12E19

in *Crataegus* preparations, by h.p.l.c. and t.l.c., 10E15

Vitexin 2''-rhamnoside, detmn. of, in *Crataegus* preparations, by h.p.l.c. and t.l.c., 10E15

Vitexin 8-(4''-rhamnoside), detmn. of, in hawthorn, by h.p.l.c. and t.l.c., 12E19

Vitreous humour, detmn. of ethanol in, by g.c., in study of blood alcohol content, 11D109

Voltammetry, anodic dissolution of metals in, two-electrode cell in, 5B8

applications in geochemistry and metallurgy, review, 9B7

cell for low-temp., 4J170

computer software for, 11J12

differential-pulse, carbon paste - ion-exchange resin electrodes for, 11J141

dipping electrodes in, 11J15

in flow-injection analysis, background-current subtraction in, 11J9

lead rotating-disc electrodes in, 11J140

linear-sweep, limits of detection and efficiency in, 2J117

liquid membranes in, alkylammonium salts in, 7J134

tetraphenylphosphonium salts and malachite green in, 7J135

microcomputer-controlled instrumentation for, 5J185

potentiostat for, 6J186

pre-concentration at carbon-paste electrodes in, extractive accumulation in, 12J172

pulse, background compensation in, with dropping-mercury electrode, 12J170

rapid-scan, 3J115

superposition principle in, 12A17

review, 2J116

stepwise-sweep, limits of detection and efficiency in, 2J118

wall-jet electrode for, 1J113

—, **anodic-stripping**, calibration in, modified standard-addition method for, 12J171

cathode surface area in, automatic compensator for measurement of, 3J118

circulation cell for, improved electrode for, 4J171

Voltammetry, anodic-stripping.—*continued*

coupled with electrocatalysis, in detmn. of copper, 12B36

detmn. of trace metals by, review, 2J121

differential pulse, in detmn. of heavy metals in Coca-Cola, automated device for, 3F25

electrode for, 6J187

in complexometric titration, 5J187

in detmn. of arsenic, flow-through cell for, 5B170

in detmn. of dopants in silicon, automated apparatus for, 1B67

instrumental parameters in, optimization of, 3B43

in study of metal speciation, review, 5J189

of cysteine and penicillamine at mercury electrode, 3D150

pseudo-stationary mercury-drop electrode in, 5J190

sodium amalgamation in, 5J188

subtractive, with flow-injection analysis, 10J148

thermoelectrically controlled hanging-mercury-drop electrode for, 3J117

thin-layer flow-through cell for, 5J191

—, **cathodic-stripping**, flow-through cell for elimination of interference in, 5B193

interpretation of data in, 6J188

of cysteine and penicillamine at mercury electrode, 3D150

—, **cyclic**, equations for peak current ratio and peak potentials and calculation of diffusion coeff. in, 8J129

in flow-injection analysis, 5J12

non-faradaic background interference in, correction for, 5J186

—, **stripping**, a.c. differential polarograph for, 1J116

of anions, interference by film deposition in, theory of, 2J120

poly-(4-vinylpyridine)-coated platinum electrode for, 5B198

Vulcanizates, analysis of, by differential scanning calorimetry and thermogravimetry, 5C115

W

Warfarin, detmn. of, by g.c. - m.s., 1D69

in animal tissue, by h.p.l.c., 5D113

by ion-pair h.p.l.c., 5D114

in plasma, by h.p.l.c., 3D74

by m.s., 8D88

Washing powders, detmn. of carbonates in, by g.c., 10C61

detmn. of phosphate and silicate in, by voltammetry, 6C46

detmn. of pyrophosphate and triphosphate in, by ion chromatography, 9C68

detmn. of sodium arenesulphonates in, by h.p.l.c., 3C56

Waste gases, analysis of factory-stack, by automated ICP a.e.s., review, 9H12

analysis of particulates of, from oil refineries, by laser m.s., 10H5

detmn. of aldehydes in, colorimetric, 7H20

detmn. of aliphatic hydrocarbons, aromatic hydrocarbons and carbon monoxide in, 2H17

detmn. of nitrogen oxides in, by spectrophotometry, 2H12

detmn. of sulphur dioxide in stack, electrochemical analyser for, 12H23

detmn. of vanadium in stack, spectrophotometric, 10C60

identn. of odorous organic compounds in, from painting and printing industries, by g.c. - m.s., 12H31

monitoring of organic compounds in, efficiency of f.i.d. in, 6H26

sampling of aerosols from, cascade impactor for, 8J1

Waste solids, analysis of, by X-ray diffractometry, 11A6B

detmn. of carbon in, 4H86

detmn. of cellulose in municipal, contaminated with synthetic materials, extractant for, 11H80

detmn. of inorganic and total carbon in, 12H104

detmn. of metals in, by polarography, 5B12

polarographic, 10H95

detmn. of organohalogen and organosulphur compounds in, by combustion and ion chromatography, 5H97

detmn. of plutonium in, by γ -ray spectrometry, 11B64

landfill, detmn. of organic compounds in gases evolved from, by g.c. - m.s., 2H18

sampling and pre-treatment of, 12H103

—, **sewage sludge**, analysis of, by carbon-13 n.m.r., 12H94

assay of catalase in, electrochemical, 10H94

assay of enzymic activity in, by methylene blue reduction, 9H87

detmn. of acid-reactive sulphide in, by evolution of hydrogen sulphide, 6H72

detmn. of cadmium, lead and thallium in, by isotope dilution - m.s., 12D27

detmn. of chlorophenoxy-herbicides in, by g.c. - m.s., 6H104

detmn. of coenzyme F₄₂₀ in, by h.p.l.c. - fluorimetry, 7H75

detmn. of fluoride in, 1H35

detmn. of heavy metals in, review, 10H90

detmn. of metals in, rapid digestion for, 9H84

detmn. of molybdenum in, by spectrophotometry, 2H66

detmn. of nitrate and nitrite in, by spectrophotometry, 6H68

detmn. of organochloro-compounds in chlorinated, by g.c. and g.c. - m.s., 5H85

detmn. of PCB and organochlorine insecticides in, by g.c., 6H103

by g.c. - m.s., 7H76

detmn. of phenols in, by h.p.l.c., 6H99

Waste solids, sewage sludge—continued

- detmn. of sulphide in, by g.l.c., 4H81
 detmn. of surfactants in, 1H43
 review, 8H91
 extraction of metals from, review, 6H51
 measurement of BOD of, limitations of 5-day test for, 12H100
 measurement of COD in, 4H83
 measurement of oxygen uptake rate of activated, COD in relation to, 12H99
- Waste water, adsorption of phenols and humic acids from, 11H60**
 analysis of, by computerized g.c., 11J48
 by g.c. - m.s., spectral retrieval system for, 12J119
 chromatographic, review, 10H41
 from coke industry, by potentiometric titration, 5H86
 review, 12H41
 analysis of industrial, photometric system for, 12J86
 automated sampler for, 6H94
 characterization of fats and oils in, 10H92
 collection of hydrocarbons from, by filtration and centrifugation, 4H72
 detection of chlorinated organic acids in, 11C10
 detmn. of alkylbenzenes in, by t.l.c. - g.l.c. and g.c. - m.s., 6H101
 detmn. of aluminium in, amperometric titrimetric, 10B54
 by luminescence, 3B47
 detmn. of ammonium ion in, by h.p.l.c. - fluorimetry, 12H67
 detmn. of aniline and its derivatives in, by g.l.c., 5H94
 detmn. of aniline and phenol in, by derivative spectrophotometry, 1H2
 detmn. of anionic surfactants in, by extraction - spectrophotometry, review, 8H86
 detmn. of anions in, by ion chromatography, automated, 12H43
 detmn. of antihistamines in, by g.c., 9G12
 detmn. of antimony in, by differential pulse anodic-stripping voltammetry, 9B107
 detmn. of arsenic in, by spectrophotometry of sol formed by arsenic hydride and silver, 5H63
 detmn. of benzidine in, by spectrophotometry, 2C61
 detmn. of boron in, ion-selective electrode in, 5H90
 detmn. of bromide in, 8H73
 detmn. of butylxanthate in, by extraction - a.a.s., 12H102
 detmn. of cadmium and zinc in, by polarography and anodic-stripping voltammetry, 3H72
 detmn. of cadmium in, 1,3-bis-(4-nitrophenyl)triazene in spectrophotometric, 10B47
 by a.a.s. with d.c. plasma as atomizer, 4J109
 in presence of selenium and iodide, by anodic-stripping voltammetry, 9H45
 detmn. of calcium, magnesium and iron in, by a.a.s., 1H26
 detmn. of carbon dioxide and oxygen from, g.c., 12H97
 detmn. of carbon dioxide in, from fish-rearing tanks, by i.r. spectrometry, 3H43
 detmn. of carbon disulphide in sewage, phloroglucinol and nickel in spectrophotometric, 10H88
 detmn. of carboxylic acids in, by g.l.c., 3H77
 detmn. of cationic surfactants in, 11H79
 detmn. of chlorinated phenols in, by g.c., 6H85, 6H102
 detmn. of chlorine in, modified electrode for, 10B130
 detmn. of chlorophenols in, by ring-oven technique, 8C29
 detmn. of chlorophenoxy-herbicides in, by g.c. - m.s., 6H104
 detmn. of 6-chloro-2-(trichloromethyl)pyridine in, 5H95
 detmn. of chromium in, by spectrophotometry, 5B195
 from leather tanning, by chemiluminescence, 11C78
 from tannery, titrimetric, 8C96
 detmn. of chromium^{VI} in, reduction - catalytic polarographic, 10H27
 detmn. of cinnamaldehyde in, by g.l.c., 4G26
 detmn. of copper, zinc, lead, manganese and tin in, by stripping voltammetry, 5H89
 detmn. of copper in, thiazole reagents in spectrophotometric, 8B27
 detmn. of cyanide in, by a.a.s., 1H29
 by flow-injection analysis, 12H96
 by indirect a.a.s., 8H59
 by indirect spectrophotometry, 7B72
 by pentafluorobenzoylation - g.l.c., 8H97
 by spectrophotometry, 4H80
 by spectrophotometry or potentiometry, 4H79
 spectrophotometric, 8H98
 detmn. of cyanogen chloride in, by spectrophotometry, 8H99
 detmn. of dehydroabiatic acid in, from paper industry, by h.p.l.c., 4H84
 detmn. of detergents in, by flow-injection analysis with tensammetric detection, 8C66
 detmn. of *o*-dianisidine in, enzyme electrode for, 2C31
 detmn. of dimethyl sebacate in, by g.c., 8H79
 detmn. of fluoride in, 1H35
 by ion-exclusion h.p.l.c., 2H67
 detmn. of formaldehyde and methanol in, 2H56
 detmn. of 2-furaldehyde and 5-hydroxymethyl-2-furaldehyde in, from processing of cellulose, by spectrophotometry or polarography, 9C72
 detmn. of heavy-metal ions in, by solvent extraction - XRF, 11B13
 detmn. of hexabromobut-2-ene in, 5H78
 detmn. of hydantoins in, by g.l.c. and m.s., 2H71
 detmn. of hydrocarbon oils in, by solvent extraction, i.r. spectrometry and gravimetry, 6H90

Waste water—continued

- detmn. of hydrocarbons in, by g.l.c., 3H75
 detmn. of hydrocarbons in oil-refinery, by i.r. spectrophotometry, 10H93
 detmn. of iron in, extraction - fluorimetric, 3B88
 detmn. of iron^{III} in, phenanthrene-9,10-quinone monooxime in colorimetric, 11B126
 detmn. of lanthanoids in, 9H85
 detmn. of lithium in, by a.a.s., 10H89
 detmn. of maleic hydrazide, ethoxyquin and thiabendazole in, by h.p.l.c., 9H88
 detmn. of manganese in metallurgical-industry, 2,4-dithiobiuret in, 11H77
 detmn. of mercury in, by cold-vapour a.a.s., 4H82
 by graphite-furnace a.a.s., 8D23
 spectrophotometric, 5B70, 8B39
 detmn. of metal ions in, by XRF, 7H73
 detmn. of metals in, by a.a.s., manual for, 8H45
 by polarography, 5B12
 rapid digestion for, 9H84
 detmn. of metal soaps in, from kraft mill, by g.c., 4C83
 detmn. of methanol in industrial, by spectrophotometry, 6H98
 detmn. of nitrate and nitrite in, by spectrophotometry, 6H68
 detmn. of nitrate and nitrite in nuclear, polarographic, 9H83
 detmn. of nitrate in, by spectrophotometry, 7H46
 ion-selective electrode for, 9J132
 detmn. of nitrite in, by photometry, 6H95
 by spectrophotometry, 3H73
 spectrophotometric, 10H56
 detmn. of nitrogen and nitrate in, effect of storage time on, 11H76
 detmn. of nitrogen compounds in, 1G6
 detmn. of non-ionic surfactants in, by spectrophotometry, 3H80
 detmn. of organic compounds in, by g.c., 1H40
 detmn. of organic contaminants in, 5H74
 detmn. of organic halogens in industrial, 9A6B
 detmn. of organic pollutants in industrial, liquid-chromatographic, 7H74
 detmn. of organic solvents in, by g.c., 3H78
 detmn. of organochloro-compounds in chlorinated, by g.c. and g.c. - m.s., 5H85
 detmn. of oxygen in, by stripping with inert gas, 8H70
 detmn. of ozone in, bis-(2,2',2''-terpyridyl)iron^{II} in spectrophotometric, 12H68
 detmn. of PAH in, by h.p.l.c., 2H69
 by spectrofluorimetry, 5H96
 by t.l.c. - fluorimetry, 10H82
 from refineries, by h.p.l.c., 11H68
 detmn. of PCB and organochlorine insecticides in, by g.c. - m.s., 7H76
 detmn. of PCB in, by g.c. - m.s., 5C117
 detmn. of phenol in, by colorimetry, 3H79
 detmn. of phenols in, by h.p.l.c., 2C50, 6H99
 by spectrophotometry, 6C21, 8H100
 detmn. of phosphate, polyphosphates and soluble silicate in, spectrophotometric, 12H7
 detmn. of phosphate in, by spectrophotometry, 2H68
 detmn. of phosphorothioate pesticides in, by g.c., pre-concentration technique for, 4H78
 detmn. of plutonium-241 in, by liquid scintillation spectrometry, 5H87, 5H88
 detmn. of polar organic and organocopper compounds in, by h.p.l.c. - a.a.s., 6H92
 detmn. of pyridine and piperidine in, by spectrophotometry, 2H70
 detmn. of silver in, by spectrophotometry, 3H74
 detmn. of sodium in industrial, electrode for, 12J155
 detmn. of strontium in, of high mineral content, by flame photometry, 11H75
 detmn. of sulphate in, by conductometric titration, 6H96
 detmn. of sulphide in, *NN*-diethyl-*p*-phenylenediamine in automated colorimetric, 6H71
 detmn. of sulphur anions in, by colorimetry, 7H50
 detmn. of surfactants in, review, 8H91
 detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.c. - m.s., 7H71
 detmn. of $\alpha\alpha\alpha$ -4-tetrachlorotoluene in, 6H100
 detmn. of thallium in, by a.a.s., 8H96
 by graphite-furnace a.a.s., 12H95
 detmn. of tin in, by XRF, 5H92
 detmn. of titanium in, by spectrophotometry, 7B82
 detmn. of total organic carbon in, automated analysers for, 6H97
 detmn. of total solutes in, from synfuel process, 12H101
 detmn. of trace elements in, by thermal n.a.a., 5B277
 by XRF, pre-concentration for, 6H42
 review, 9H11
 detmn. of trace metals in, by Zeeman a.a.s. with platform furnace, 5J91
 detmn. of trace organic compounds in, by fluorimetry, automated system for, 5H93
 detmn. of traces of mercury in, by cold-vapour a.a.s., 6H57
 detmn. of 1,3,5-triazine derivatives in, by h.p.l.c., 1H41
 detmn. of uranium in, by spectrophotometry with chelating-agent-loaded anion-exchange membrane, 5H91
 by XRF, 5H53

Waste water, detmn. of uranium in,--continued

- oscillopolarographic, 10H87
 detmn. of vanadium in, in presence of titanium, by spectrophotometry, 11B98
 detmn. of volatile halocarbons in, by g.l.c., 6H83
 detmn. of volatile organic compounds in, by closed-loop gaseous stripping - thermal desorption, 10H66
 detmn. of zinc, cadmium, lead and copper in, decomposition of organic matter in, 12H50
 extraction of organic compounds from, by cation exchange, 3H60
 extraction of PCB from, activated carbon in, 8H84
 extraction of uranium from radioactive, pyrazolone derivatives in, 11B56
 identn. of non-ionic detergents in, by g.c. - m.s., 11H78
 measurement of BOD in, optimization of, 12H79
 measurement of COD in, by dichromate method, catalysts for, 10H67
 interference by sulphur dioxide in, 3H76
 open-tube method without mercury in, 12H83
 review, 8H95, 9H86
 semi-automated, 12H98
 monitoring of chlorine dioxide in, by automated photometry, 2C64
 radioactive, extraction of boric acid from, with alkanols, 5B72
 sampling of, bias in composite, 7H72
 review, 8H39
 sepn. of surfactants in, by t.l.c., 1H42
Water, detection of, within electronic devices, by m.s., 5B287
 detmn. of, automated Karl Fischer titrator for, 10B24
 by g.l.c. - refractometry, 3C2
 by Karl Fischer coulometry, 11B17
 in acetic acid, by g.l.c., 5C27
 in acetone and ethanol, by enthalpimetry, 7C16
 in air, chemical micro-sensors in, review, 9J123
 in aluminium chloride - *N*-butylpyridinium chloride melt, by voltammetry, 5B79
 in anhyd. milk fat, Karl Fischer reagent in titrimetric, 6F42
 in biotite, by micro-probe, regression equations for, 10B173
 in brewing materials, by near-i.r. spectrometry, 6F73
 in brewing raw materials, by near-i.r. spectrometry, 7F84
 in butter, on-line sensors in, 10F47
 in by-products of dye production, by extraction - g.c., 10C69
 in coal, coulometric, 11B162
 in coal and solid fuel, by g.c., 2B85
 in compressed hydrocarbon gases, micro Karl Fischer, 9C48
 in deuterium oxide, i.r. spectrophotometric, 10B26
 in ethanol, by hygrometry, 12C13
 in ethanol or air, by g.l.c., 2C9
 in feeding-stuffs, 6G18
 in food, by filament hygrometry, 4F3
 by modified Karl Fischer titration, 4F2
 by n.m.r., 5F1
 review, 6F6
 in forage, precision and quality control of, 5G21
 in freeze-dried vaccines, by vapour-phase stripping - titrimetry, 12E5
 in gaseous samples, by g.c., 5B29
 in gasoline - alcohol mixtures, by liquid chromatography, 10C56
 in goat's milk, 3F18
 in hydrocarbon fuel, indicator test for, 11C38
 in insulating materials, by dynamic head-space g.c., 5C111
 in insulating oils, by titrimetry, 9C59
 in ketones and silicone oils, with modified Karl Fischer reagents, 4C15
 in liquefied alkanes, by g.l.c., 5C12
 in metal halides, by coulometric Karl Fischer titration, 7B105
 in milk powder, by diffuse-reflectance i.r. spectrophotometry, 2F28
 in milk-protein concentrates, reproducibility of, 5F30
 in oils and fats, by Karl Fischer method, 12F41
 in organic solvents, by potentiometric flow-injection Karl Fischer method, 10C6
 in paper, optical meter for, 4C81
 in pasta, gravimetric, 7F36
 in petroleum products, by a.t.r. i.r. spectrometry, 2C40
 in pharmaceutical preparations, by microwave spectrometry, 4E6
 gas-dynamic, 11E2
 in plutonium^{IV} oxide, 11B66
 in polysaccharides and glycoproteins, 2D130
 in pork and beef, by near-i.r. spectrophotometry, 1F10
 in powdered phenacetin, by reflectance, 8E55
 in solid fuel, by multiple neutron γ -ray spectrometry, 1B158
 in sorghum leaves, wheat, rough rice and soya beans, microwave oven in, 6G1
 in sugar and bagasse, by i.r. reflectance, 4A1B
 in sunflower seeds, by Karl Fischer titration, 5F60
 in table salt, 8F49
 in tobacco, 7G11
 in wheat, by near-i.r. reflectance spectrometry, 3G2
 in wheat flour, microwave, 7F34
 in white flour, by near-i.r. reflectance, 10F27
 in wool, by measurement of dielectric constant, 2C66
 simultaneously with nitrogen in grain, automated, 11G4
 detmn. of equilibrium content of, in coal, 11B159

Water--continued

- detmn. of free, in solids, by β -ray back-scattering, 9B12
 detmn. of total, in human body, by m.s., 7D18
 detmn. of trace, in ammonia, by acetylene generation - g.c., 12B107
 in gases, by reaction g.c., 3B22
 detmn. of vapour of, in troposphere, review, 9H6
 —, **chlorinated**, detmn. of residual chlorine oxidants in, review, 5H69
 —, **deuterated**, detmn. of deuterium in, by distillation - m.s., 12B33
 electrochemical, 5J168
 —, **high-purity**, detection of trace impurities in, by h.p.l.c., effect of storage on, 6B32
 detmn. of alkali metals in, by graphite-furnace a.e.s., 9B15
 detmn. of copper in distilled, thiazole reagents in spectrophotometric, 8B27
 —, **tritiated**, detmn. of vapour of, in air, non-volatile liquid scintillant sorbent in, 11H12
Water repellents, detmn. of sodium aluminomethylsilicate and zirconium chloride oxide in, by complexometry - absorptiometry, 2C65
Waters, industrial, analysis of primary coolant, of pressurized water reactor, bibliography, 9B13
 detmn. of anions in, by ion chromatography, automated, 12H43
 detmn. of boric acid in nuclear-power-plant cooling, by continuous conductometry, 4J175
 detmn. of carbon dioxide in and pH, alkalinity and acidity of, 9H36
 detmn. of dissolved oxygen in, 9H59
 detmn. of dissolved oxygen in and measurement of conductivity of, automated, 9H56
 detmn. of EDTA in boiler, by ion-pair h.p.l.c., 10H78
 detmn. of morpholine and cyclohexylamine in, by ion chromatography, 8H82
 detmn. of nitrate in, 6F74
 detmn. of phosphorus in, by n.a.a., 4J155
 detmn. of reactive, suspended and total silica in, by spectrophotometry, 6B33
 detmn. of sodium in, 9H43
 detmn. of soluble phosphate and organophosphorus compounds in, by spectrophotometry, 6B34
 detmn. of trace impurities in, instrumentation for, 8H36
 detmn. of trace silicon in de-ionized, by graphite-furnace a.a.s., 12B31
 detmn. of uranium in primary reactor-coolant, by n.a.a., 12B32
 identn. of PAH in, by dual-column g.l.c., 9C66
 —, **natural**, analysis of, 10H43, 12A1B
 by g.c. - m.s., review, 8H40
 spectral retrieval system for, 12J119
 by h.p.l.c. - m.s., review, 12H75
 by r.i.a., review, 12H76
 chromatographic, review, 10H41
 ion-selective electrodes in, 8H38
 IQAS discrete analyser for, 8H42
 recommended procedures for, 7H26
 review, 3H28, 12H41
 analysis of contaminated, review, 11H31
 analysis of estuarine, inter-laboratory quality control of, 7H25
 analysis of rain, sorption on polyethylene in relation to, 4H51
 analysis of suspended matter in, wet-oxidation and loss on ignition of organic material in, review, 9H76
 assay of alkaline phosphatase in, by fluorimetry, 1H39
 assay of catalase in, electrochemical, 10H94
 assay of phosphatase in estuarine, by cleavage of 4-nitrophenyl phosphate, 9H81
 sampling for, 9H82
 collection of hydrocarbons from, by filtration and centrifugation, 4H72
 detection of chlorophenols in, by t.l.c., 11H62
 detection of malathion in, spot test for, 3H69
 detection of nerve gases in, 4H6
 detection of organophosphorus pesticides in, 1H38
 detection of phenols in, by g.c. after steam-distillation - extraction, 9H73
 detmn. of acrylonitrile in, by h.p.l.c., 3H61
 detmn. of aldehydes in, by g.l.c., 3H58
 detmn. of alkali metals in, by graphite-furnace a.e.s., 9B15
 detmn. of alkyl-lead salts in, by g.l.c., 6H88
 detmn. of aluminium in, by laser-atomic photo-ionization, 4J128
 by laser photo-ionization, 4H60
 by luminescence, 3B47
 Chrome Azurol S and non-ionic surfactants in photometric, 12H59
 photometric, 12H58
 xylenol orange in colorimetric, 2B31
 detmn. of aluminium in stream, spectrophotometric, 10H51
 detmn. of americium, curium, plutonium and thorium in, 1H28
 detmn. of aminocarb and its degradation products in, by g.c. after extraction, 6H89
 detmn. of aminophenols in, spectrophotometric, 5C50
 detmn. of ammonia in, by spectrophotometry, automation of, 5H64
 detmn. of ammonia in estuarine, indophenol blue in automated, 9H53
 detmn. of ammonia in river, fluorimetric, 7H42
 detmn. of ammonium ion and calcium in, by ion chromatography, 6B37
 detmn. of ammonium ion in, by Berthelot reaction, review, 12B101
 by h.p.l.c. - fluorimetry, 12H67
 by spectrophotometry, 2H45

Waters, natural,—continued

- detmn. of anionic and methylated arsenic species in, by hydride generation - a.a.s., 5H61
- detmn. of anionic surfactants in, by a.a.s., 3H71
- by extraction - spectrophotometry, review, 8H86
- coated-wire electrodes for, 6J174
- detmn. of anions, calcium and magnesium in, by ion chromatography with EDTA as eluent, 12B24
- detmn. of anions in, by ion chromatography, 4H50, 6H45
- automated, 12H43
- detmn. of anions in precipitation, by ion chromatography, 12H42
- detmn. of anions in rain, by ion chromatography, 6H9
- detmn. of antimony in, by hydride generation - photoluminescence, 10B102
- detmn. of arsenic, antimony, selenium and tellurium species in, by a.a.s., 9B106
- chromium, molybdenum, selenium and tungsten in, by ion-exchange chromatography, 5B194
- detmn. of arsenic and antimony in, by n.a.s., 10H53
- detmn. of arsenic and phosphorus in, spectrophotometric, 3H46
- detmn. of arsenic and selenium in mineral, by a.a.s., 9H50
- detmn. of arsenic in, by automated a.a.s., 5H66
- by differential pulse polarography, 8H62
- by flotation separation and a.a.s., 9H49
- by h.p.l.c. - ICP a.e.s., 11H44
- by hydride generation - a.a.s., 1B88
- by hydride generation - direct-current plasma emission spectrometry, 10B101
- by spectrophotometry of sol formed by arsenic hydride and silver, 5H63
- detmn. of arsenic in ground, by spectrophotometry after co-pptn. with zirconium hydroxide, 9H48
- detmn. of arsenite in, by graphite-furnace a.a.s., s-butyl phosphorodithioate in, 12H65
- detmn. of arylamide pesticides in, 11H71
- detmn. of asbestos fibres in, by transmission electron microscopy, membrane-filter direct-transfer technique for, 5B271
- detmn. of asulam in, by fluorimetry, 5G36
- detmn. of biogenic silica in, alkaline digestion methods for, 9H71
- detmn. of boron in, by extraction - spectrophotometry, 1B42
- by fluorimetry in continuous-flow system, 4H61
- by ion-pair chromatography, 7B51
- spectrophotometric, 12B53
- detmn. of bromide in, 8H73
- by g.c. after conversion into bromoform, 10H60
- enrichment method for, 7H52
- detmn. of bromine and bromide in, by chemiluminescence, 6H76
- detmn. of bromoxynil octanoate and metribuzin in runoff water from wheat fields, by h.p.l.c., 11G29
- detmn. of butonate and its metabolites in, by g.c., 7G34
- detmn. of butyltin compounds in, 3C35
- detmn. of cadmium-113m, by β -counting, 5H52
- detmn. of cadmium, copper, lead and zinc in, by differential pulse anodic-stripping voltammetry, 4H55
- copper and lead in river, by a.a.s. after extraction and by ICP a.e.s., 8H50
- detmn. of cadmium and lead in, by anodic-stripping voltammetry, 8H48
- optimization of, 3B43
- detmn. of cadmium in, by a.a.s. with ion flotation, 7H34
- by extraction - a.a.s., 12B50
- by radioisotope dilution, 2H43
- by solvent extraction - a.a.s., 1H27
- in presence of selenium and iodide, by anodic-stripping voltammetry, 9H45
- spectrophotometric, 10B46
- detmn. of caesium in, by laser atomic ionization, 1B17
- detmn. of calcium, magnesium and iron in, by a.a.s., 1H26
- detmn. of calcium in, 1,3-bis-(2-pyridylmethylencamino)urea in spectrophotometric, 9B36
- surfactant-tolerant ion-selective electrode for, 5J172
- detmn. of carbamate pesticides in, by h.p.l.c. with post-column reaction, 7G36
- detmn. of carbofuran and its 3-hydroxy-metabolite in, by t.l.c., 12G16
- detmn. of carbofuran in, by g.c., 9H79
- detmn. of carbon dioxide in, by i.r. spectrometry, 3H43
- detmn. of carbon in, oxidation procedures for, 8H74
- detmn. of cartap in, by colorimetry or fluorimetry, 3H66
- detmn. of cationic surfactants in, 11H79
- by radiometry, iodine-131-labelled Rose Bengal in, 4C67
- detmn. of chloride in, by potentiometric flow-injection analysis, 2H48
- reference electrodes for potentiometric, 10J142, 10J143
- detmn. of chloride in rain, by g.c. and a.a.s., 12H28
- detmn. of chloride in river, by flow-injection analysis - turbidimetry, 12H71
- detmn. of chlorine, chlorine dioxide, chlorate and chlorite in, by electrometric titration, 7H53
- detmn. of chlorine in, by titrimetry, 4H68
- detmn. of chloro-compounds and PCB in rain, automated sampler for, 9H66
- detmn. of chlorophyll *a* in, spectrophotometric, inter-laboratory, 11H66

Waters, natural,—continued

- detmn. of chlortoluron and metoxuron in, by g.c., 3G17
- detmn. of chromium in, by extraction and co-pptn., 3H48
- by fluorimetry, 12H69
- by g.l.c. of complex with trifluoroacetylacetone, 8H68
- by h.p.l.c. - d.c. plasma emission spectrometry, 4B133
- by ion exchange - a.a.s., 5H67
- detmn. of cobalt in, reagents for spectrophotometric, 2B76
- spectrophotometric, 11H52
- detmn. of contaminants in ground, fibre optics for, 9H35
- detmn. of copper, cobalt, nickel and iron in, by h.p.l.c. of 4-(2-pyridylazo)resorcinol chelate, 10B135
- zinc and cadmium in, by a.a.s. after pre-concentration on polyurethane foam, 8H49
- detmn. of copper and cadmium in, by a.e.s. with toroidal microwave-induced plasma, 11J92
- detmn. of copper-complexing agents in, by amperometric titration, 3H53
- detmn. of copper in, by anodic-stripping voltammetry, review, 5J189
- detmn. of cyanide in, by a.a.s., 1H29
- by fluorimetry, 3H45
- by indirect a.a.s., 8H59
- selectivity of electrode for, 6J177
- detmn. of cyhexatin and its metabolites in, by t.l.c., 6H4
- detmn. of 2,4-D and its salts in, by t.l.c., 8G13
- detmn. of dichlobenil and 2,6-dichlorobenzamide in, by h.p.l.c., 11G26
- detmn. of dicloran in, by t.l.c. or g.c., 8H88
- detmn. of diesel and crude oil in, by loss of internal reflection in optical fibre, 2H57
- detmn. of diesel oil in, by emulsification - g.c., 8H85
- detmn. of diethylamine in, by g.l.c., 12H89
- detmn. of dimethyl sebacate in, by g.c., 8H79
- detmn. of diquat and paraquat in, by differential pulse polarography, 5G34
- detmn. of dissolved gases in, 5H38
- by g.c., 10H42
- detmn. of dissolved organic matter in eutrophic, by spectrofluorimetry, 2H53
- detmn. of dissolved oxygen in, by anodic-stripping voltammetry, 3H50
- by potentiometric titration, 4H67
- by spectrophotometry with cyclohexanediaminetetra-acetic acid, 6H56
- detmn. of dodecylbenzenesulphonate in, by h.p.l.c., 10H84
- detmn. of EDTA and fulvic acid in, by size-exclusion chromatography with electrochemical detection, 11C13
- detmn. of elementary carbon in rain, by oxidation and i.r. spectrophotometry, 7H40
- detmn. of elements in, by activation analysis, 7H28
- by ICP a.e.s., 2I81
- detmn. of ethalfuralin in, by differential pulse polarography, 11G31
- detmn. of fatty acid metal salts in river, by h.p.l.c. with fluorescence pre-labelling, 9D121
- detmn. of fluoride in, by its catalytic effect on zirconyl peroxide - xylenol orange reaction, 9H61
- detmn. of formaldehyde and acetaldehyde in, by g.c. as cyanohydrins, 10H77
- detmn. of formaldehyde and methanol in, 2H56
- detmn. of free available chlorine in, 6H73
- detmn. of germanium and methylgermanium species in, by hydride-generation a.a.s., 12H86
- detmn. of gold in, by electrothermal a.a.s., 10H47
- detmn. of gold^{III} in, potentiometric, 6H54
- detmn. of halides, nitrate and thiocyanate in, by h.p.l.c., 1H36
- detmn. of haloalkanes in, as 2-naphthyl ethers, 8H78
- detmn. of halocarbons in, by g.l.c., 10H73
- by head-space g.c., 5J56, 6H84
- by purge closed-loop g.c., 11H58
- detmn. of haloforms, herbicides and phosphorochloridates in, by g.c., 10H69
- detmn. of halogenated organic compounds in, by g.c. - microwave-induced plasma emission spectrometry, 7H60
- detmn. of halothane in, by g.c., 7J56
- detmn. of heavy metals in, 6H49, 8H46
- by a.a.s., 7H31
- flotation separation in, 2H35
- by anodic-stripping voltammetry, 4H54
- by extraction - ICP a.e.s., 8H47
- by h.p.l.c., 7H32
- detmn. of herbicides in, by g.l.c. and g.l.c. - m.s., 2H60
- detmn. of hexahydro-1,3,5-trinitro-1,3,5-triazine in, by chronoamperometry, 2H62
- detmn. of hexazinone in, by h.p.l.c., 5G35
- detmn. of hydrocarbons in, by g.l.c., 3H75
- detmn. of hydrogen peroxide in, optoacoustic, 9H42
- detmn. of hydrogen peroxide in rain, by chemiluminescence, 11H35
- detmn. of hydrogen sulphide and sulphide ions in, by extraction - spectrophotometry, 11H49
- detmn. of inorganic anions and carboxylic acids in, by ion chromatography, 3H29
- detmn. of inorganic anions in, by ion chromatography, 3H30

Waters, natural,—continued

- detmn. of inorganic anions in rain- by suppressed-ion chromatography, 11B12
- detmn. of iodide in, electrometric, 9H62
- detmn. of iron and manganese in, by a.a.s., 12H72
- detmn. of iron and manganese in mineral, 12H60
- detmn. of iron in, by ion flotation - spectrophotometry, 10H62
- by spectrophotometry, 4H69, 5B220
- extraction - spectrophotometric, 9B140
- spectrophotometric, 8B113
- sample preservation system for, 9H64
- standard for, 2H51
- detmn. of isotopes of boron in salt-lake, by m.s., 7H36
- detmn. of lactic acid and pyruvic acid in, by polarography, 7H63
- detmn. of lead and cadmium in, stabilization of samples for, 1H25
- detmn. of lead in, by a.a.s., 1H30, 8B71
- by anodic-stripping voltammetry, 12H61
- by flame a.f.s., 6D42
- by room-temperature phosphorescence, 8H58
- by spectrophotometry, 6B101
- detmn. of ligninsulphonic acids in, standard compounds for, 11H74
- detmn. of linear alkylbenzenesulphonates in river, by desulphonation and g.l.c., 9H80
- by g.l.c., 8H87
- detmn. of long-lived radionuclides in, 5H2
- detmn. of magnesium and calcium in, by ion-selective electrode, selectivity of, 4H59
- detmn. of maleic hydrazide, ethoxyquin and thiabendazole in, by h.p.l.c., 9H88
- detmn. of manganese in, by differential pulse polarography, 6H74
- by e.s.r., 8H71
- by polarography, 6H77
- detmn. of mercury, chlorine, bromine and iodine in, by n.a.a., 5H47
- detmn. of mercury and barium in, by ion exchange - XRF, 8H55
- detmn. of mercury in, by a.a.s., palladium chloride enhancement in, 5H1
- by flow-injection analysis - a.f.s., 6B63
- by fluorimetry, 8H13
- by low-pressure ring-discharge a.e.s., 3H38
- by spectrophotometry, thioetone in, 4B71
- spectrophotometric, 5B70
- detmn. of mercury in rain, 10H48
- detmn. of mercury in surface, 11H37
- detmn. of metals in, by a.a.s., manual for, 8H45
- suppression of interference in, 9H39
- by flame a.a.s., 11B3
- by n.a.a., 6H47
- optimized spectral measurement in spectrochemical, 12H49
- detmn. of metals in mineral, by differential pulse anodic-stripping voltammetry, 2H34
- detmn. of methanol in, spectrophotometric, 11H24
- detmn. of methylmercury in, by a.e.s., 5J94
- detmn. of molybdenum, vanadium and chromium in, by a.a.s., 4H64
- detmn. of molybdenum in, by a.a.s., 9B128
- detmn. of molybdenum-99 in, by n.a.a., 9H55
- detmn. of molybdenum in, by spectrophotometry, 7B100
- detmn. of *Fusarium* mycotoxins in, by g.c. - m.s., 7D103
- detmn. of nickel in, 2-benzoyl-4-(2-nitrophenyl)acetohydrazide in photometric, 12H74
- electrochemical pre-concentration in, 9H65
- spectrophotometric, 12B151
- detmn. of nickel in mineral, by extraction - cation-exchange chromatography, 4H70
- detmn. of nifluridide and its cyclized breakdown product in, by h.p.l.c. after automated extraction, 8H92
- detmn. of nitrapyrin in, by g.l.c. or t.l.c., 7H6
- detmn. of nitrate and nitrite in, by flow-injection analysis, apparatus for, 6H63
- by h.p.l.c., 7F9, 12H64
- by reduction to ammonia and enzymic cycling, 8H67
- by spectrophotometry, 6H68, 7H45
- detmn. of nitrate and phosphate in, by segmented-flow analysis, 7H43
- detmn. of nitrate in, by differential pulse polarography, 11H42
- by electrocatalytic reduction, 11B85
- by g.l.c., 2,4-xenol in, 5H65
- by isotope-dilution m.s., 1H33, 12H63
- by micro-bore h.p.l.c., 1H31
- by potentiometry, 2H46
- by spectrophotometry, 1H32, 6B110, 7H46
- spectrophotometric, 3H47
- detmn. of nitrate in lake, by ion-exchange chromatography, 6H67
- detmn. of nitrate in small samples of, by cadmium reduction method, 8H66
- detmn. of nitrilotriacetic acid in, by anodic-stripping voltammetry, 12H88
- detmn. of nitrite and sulphite in, by ion chromatography with quenched-phosphorescence detection, 12B103
- detmn. of nitrite in, adsorption - colorimetric, 10H55
- by g.c. of benzotriazole derivatives, 7A5
- by spectrophotometry, 6H65

Waters, natural,—continued

- flow-injection - spectrophotometric, 7H41
- ion-selective electrode for, 12I160
- spectrophotometric, 10H56, 11H43
- detmn. of 4-nitroaniline in, by spectrophotometry, nitrite and 1-naphthol in, 4H77
- detmn. of nitrophenols in, by h.p.l.c., 6H86, 11H67
- detmn. of non-ionic surfactants in, by a.a.s., 3H67
- spectrophotometric, 3H68
- detmn. of oil and grease in, spectrophotometric, 8H94
- detmn. of oil in, chemical - fibre optic sensor in, review, 9J68
- detmn. of organic carbon in, automated, 11H54
- detmn. of organic compounds in, by closed-loop gas-phase stripping, 6H79
- by g.c. and m.s., 10H68
- by g.c. - m.s., extraction methods for, 12H77
- by selective adsorption - g.l.c., 6H78
- review, 10H72
- with recovery by closed-loop stripping, 5H73
- detmn. of organic contaminants in, 5H74
- sampling criteria for, 11H56
- detmn. of organic halides in, by pyrolysis - micro-coulometry, 9H75
- detmn. of organobromine compounds in, by g.c. - m.s., 10H75
- detmn. of organochlorine pesticides in, by concentration - g.l.c., 10H85
- by g.c. - m.s., 8G11
- detmn. of oryzalin in, by derivatization - g.l.c., 10G19
- detmn. of oxidizing agents in, instrumental, review, 7H29
- detmn. of oxygenated fatty acids in, by extraction - h.p.l.c., 12D121
- detmn. of oxygen-18 in, 6C4
- detmn. of ozone in, by spectrophotometry, 6H70
- detmn. of PAH in, by t.l.c. - fluorimetry, 10H82
- detmn. of PAH in river, by t.l.c. with pre-concentration, 10H83
- detmn. of particulate organic carbon in, colorimetric, 12H82
- detmn. of PCB and organochlorine pesticides in, by capillary-column g.c., 11G36
- detmn. of PCB in, by g.c. - m.s., 3H65
- detmn. of pentachlorophenol in, by derivative spectrophotometry, 1H2
- detmn. of pesticides and other organic pollutants in, by g.c. and t.l.c. after pre-concentration on Tenax-GC, 8H4
- detmn. of petroleum-derived pollutants in, sampling for i.r., 10H65
- detmn. of phenol and cresols in, by g.l.c., pre-concentration for, 5H81
- detmn. of phenolic and polyhydric compounds in, Folin - Ciocalteu phenol reagent in, 4H74
- detmn. of phenols in, by h.p.l.c., pre-concentration in, 1H37
- standard soln. for, 7H67
- standard soln. for spectrophotometric, 10H79
- detmn. of phenylenediamines in, by h.p.l.c., 4H76
- detmn. of phenylurea herbicides in, by g.c. or h.p.l.c. of heptafluorobutyl derivatives, 9G21
- detmn. of phenylurea herbicides in river, by h.p.l.c., 8H89
- detmn. of phosphate, polyphosphates and soluble silicate in, spectrophotometric, 12H7
- detmn. of phosphate in, by derivative spectrophotometry, 8H64
- by spectrophotometry or spectrofluorimetry, 5B166
- spectrophotometric, 11H41
- detmn. of phosphorus in, interference by iron and hydrogen sulphide in, 12H66
- masking of iron in, 8H65
- spectrophotometric, review, 8H63
- detmn. of phosphorus in anoxic, by h.p.l.c., 7H44
- detmn. of picloram in, by h.p.l.c., 11G13
- detmn. of plutonium in, 7H38
- detmn. of polar organic and organocopper compounds in, by h.p.l.c. - a.a.s., 6H92
- detmn. of pollutants from oil shale in, 1C25
- detmn. of polychloronaphthalenes in, 11H69
- detmn. of polyoxyethylene glycols in, by photometry, 5H84
- detmn. of polyoxyethylene surfactants in, spectrophotometric, 12H93
- detmn. of propiconazole and etoconazole in, by g.c., 1G13
- detmn. of propoxur in, by h.p.l.c., 7H70
- detmn. of pyrethroid residues in, by g.l.c., 5G41
- detmn. of radium-226 and thorium-230 in, gravimetric, 11B33
- detmn. of radium-226 in, by α - γ coincidence technique, 5H51
- detmn. of radium in, by ion exchange - liquid scintillation counting, 12H56
- detmn. of radon in, instrument for, 8H11
- detmn. of redox potential of and dissolved gases and purgeable organic compounds in, sampling for, 10H39
- detmn. of resmethrin in, by t.l.c. - spectrophotometry, 2H4
- detmn. of rotenone in, by h.p.l.c., 10H86
- detmn. of selenate, selenite and arsenate in, by ion chromatography, 10H57
- detmn. of selenium in, 11D30
- by a.a.s., 3H49
- fluorimetric, 10B119
- modified ion-exchange resin for sorption in, 11B106
- titrimetric, 10H58
- detmn. of silicon in, review, 9H47
- detmn. of silver and cobalt in, by n.a.a., 4H58
- detmn. of silver in, by chemiluminescence, 6H53

Waters, natural,—continued

- detmn. of silver in mineral, by chemiluminescence, 3H35
 detmn. of sodium in, electrode for, 6J175
 detmn. of soluble reactive phosphate, dissolved silicon and free iron in, filtration methods for, 8H61
 detmn. of strontium-90 in, by ion-exchange chromatography, 5B62
 detmn. of sulphate in, by spectrophotometry, 1B99
 flow-injection - spectrophotometric, 11H47
 titrimetric, 6H69
 detmn. of sulphate in lake and core, with lead^{II}-selective electrode, 10H59
 detmn. of sulphide in, as methylene blue, concentration method for, 9B115
 by iodimetry, spectrophotometry and ion-selective electrode, 5H68
 by ion-selective electrode, 4J167
 by vaporization and absorption followed by titrimetry, 8H69
NN-diethyl-*p*-phenylenediamine in automated colorimetric, 6H71
 detmn. of sulphur anions in, by colorimetry, 7H50
 detmn. of sulphur compounds in, by spectrophotometry oxidation, or reduction techniques for, 4H48
 detmn. of surfactants in, review, 8H91, 11H72
 detmn. of suspended solids in, standardization of, 5H41
 detmn. of tellurium in, by flotation - a.a.s., 9H57
 by stripping voltammetry, 11H48
 detmn. of tetra-alkyl-lead species in, by extraction - a.a.s., 12H85
 detmn. of 2,3,7,8-tetrachlorodibenzo-*p*-dioxin in, by g.c. - m.s., 7H71
 detmn. of tetrahydrothiophene in, by head-space g.c. - m.s., 12H90
 detmn. of thallium in, by anodic-stripping voltammetry or a.a.s., 12B60
 electrode for, 9D28
 detmn. of thiocyan in, by t.l.c., 2H63
 detmn. of thorium in polluted lake, interference in, 11H39
 detmn. of tin and methyltin species in, by a.a.s. or flame photometry, 8H60
 detmn. of tin in, by a.a.s., 3H44
 detmn. of total amino-acids and proteins in, by g.c. after ninhydrin - carbon dioxide, 7H65
 detmn. of total ammoniacal nitrogen in, by gas-diffusion-cell flow-injection spectrophotometry, 5H59
 detmn. of total inorganic carbon in small samples of, by i.r. spectrometry, microcomputer in, 12H62
 detmn. of total nitrogen and total phosphorus in, by AutoAnalyzer after persulphate oxidation, 10H54
 detmn. of total organic carbon and volatile organic compounds in, by trapping, combustion and i.r. spectrophotometry, 7H57
 detmn. of total organic carbon in, 3H55
 detmn. of trace amino-acids in, by h.p.l.c. - fluorimetry, 7H66
 detmn. of trace arsenic in, by electrothermal a.a.s., 9H51
 detmn. of trace chlorophenols in, by g.c. - m.s., 8C32
 detmn. of trace cobalt and nickel in river, by a.a.s., 3B103
 detmn. of trace elements in, after pre-concentration by sorption, review, 6H46
 by a.a.s., 6B25
 by anodic-stripping voltammetry, 12H47
 by ICP a.c.s. and a.a.s., 1H24
 by n.a.a., 3H31
 by α -particle-induced X-ray emission, 12H44
 by XRF, pre-concentration for, 6H42
 review, 9H11
 pre-concentration methods for, 2B1
 detmn. of trace elements in lake, by instrumental n.a.a., 12H46
 detmn. of trace elements in urban snow, by PIXE and instrumental n.a.a., 6H41
 detmn. of trace halohydrocarbons in, by g.c., simplified purge-and-trap method in, 12H84
 detmn. of trace metals in, by spark-source m.s., 4B31
 voltammetric, review, 11H33
 detmn. of trace organic compounds in, by g.c. - m.s., 7H54
 sampling for, 10H71
 detmn. of trace organic pollutants in, 9A6B
 detmn. of traces of mercury in, by cold-vapour a.a.s., 6H57
 detmn. of trace surfactants in, review, 11H73
 detmn. of trace uranium in, by laser fluorimetry, 8H57
 detmn. of trialkyl-lead compounds in, by graphite-furnace a.a.s., 2H65
 detmn. of triazine herbicides in, by g.l.c., 5H83
 detmn. of tributyltin in, by g.l.c. and g.c. - m.s., 11H59
 detmn. of tripropyltin chloride in, by g.c., 9H77
 detmn. of uranium in, by stripping voltammetry, 5H54
 by XRF, 5H53
 fluorescence-enhancing agents in laser spectrofluorimetric, 7B68
 detmn. of vanadium in, catalytic - spectrophotometric, 6H61
 detmn. of vinyl chloride in, by g.l.c., 9H70
 detmn. of volatile fatty acids in, by g.c., 12H87
 detmn. of volatile halocarbons in, by g.l.c., 6H83
 detmn. of volatile organic compounds in, by capillary g.c. with e.c.d., 9H69
 by closed-loop gaseous stripping - thermal desorption, 10H66
 detmn. of volatile organochlorine compounds in, by head-space technique and combustion, 10H74
 detmn. of zinc, cadmium, lead and copper in, decomposition of organic matter in, 12H50

Waters, natural,—continued

- detmn. of zinc in, spectrophotometric, 9H44, 12H57
 voltammetric, 9H46
 extraction of copper from, by collection on zinc, 6H52
 extraction of hydrocarbons from, by stripping with nitrogen, 3H57
 extraction of metals from, by adsorption on iminodiacetic acid - cellulose, 2H31
 diethylenetriamine-cellulose powder as sorbent in, 11H34
 macrocyclic compounds for, review, 1A4
 extraction of metals from river, by flotation, 4H52
 extraction of monohydric alkylphenols from, capillary g.c. evaluation of, 10H80
 extraction of organic compounds from, by cation exchange, 3H60
 with dynamic head-space-sampling pre-concentration, 12H78
 extraction of PAH from, polyurethan foams for, 12H91
 extraction of PCB from, activated carbon in, 8H84
 extraction of phenols from, cyclohexyl bonded-phase sorbent in, 11H64
 extraction of trace metals from, two-coil system for, 12B18
 extraction of trace organic compounds from, solvents and sorbents in, 9H68
 identn. of asbestos fibres in, by light and X-ray microscopy, 12H1
 identn. of carcinogenic hydrocarbons in ground-, by t.l.c., 11H63
 identn. of chlorinated products of, in hypochlorite-treated, by g.l.c. and m.s., 2H58
 identn. of crude and refined oils in, by i.r. spectrophotometry, 7H56
 identn. of organic compounds in, by g.c. - m.s., purge-and-trap system for, 7H58
 identn. of organic nitrogen compounds in, 3H63
 identn. of polyhydric phenols in, by t.l.c., 11H61
 measurement of alkalinity of, 2H36
 by spectrophotometry and potentiometric titration, 2H39
 measurement of BOD in, optimization of, 12H79
 measurement of COD in, by dichromate method, catalysts for, 10H67
 masking of chloride ions by silver nitrate in, 7H59
 open-tube method without mercury in, 12H83
 measurement of hardness of, by flow-injection spectrophotometry, 10H49
 ion-selective electrode for, 10J137
 measurement of pH and alkalinity of, by potentiometric titration, probe for, 2H40
 measurement of pH and electrical conductivity of river, collaborative study on, 10H44
 measurement of pH of fresh, flow-cell system for, 6H55
 measurement of pH of soft-water lake, with pH electrode, 10H46
 monitoring of pollutants in vadose, 4H47
 monitoring of quality of river, telemetry system for, 10H40
 sampling of, apparatus for, 8H41
 review, 8H39
 sampling of ground, protocol for, 8H37
 sampling of volatile organic compounds in, 11H57
 sepn. of anions from, with cationic surfactants, 6H44
 sepn. of anions in river, by anion chromatography, 1J38
 sepn. of hydrocarbons in, by h.p.l.c., 7H55
 sepn. of inorganic and organic arsenic species in, by anion exchange, 6H66
 sepn. of lead and tin from mineral, ion-exchange sorbent for, 12B43
 sepn. of metals from, by ion exchange, 10J49
 sepn. of organic compounds from, methods for, 11H55
 sepn. of PAH and aromatic nitrogen compounds from, Chromosorb T as sorbent in, 12H81
 sepn. of phosphate in lake, by gel chromatography, errors in, 11H46
 sepn. of substituted phenols from, by h.p.l.c., 9H74
 sepn. of trace metals in, by size fractionation, review, 3H33
 sorption of chromium from, as its diphenylcarbazone complex, 2H47
 sorption of iodine-131 from, on polyurethan, pulse techniques for, 2H50
 speciation of elements in, in presence of fulvic acids, 7H27
 speciation of metals in, by Donnan dialysis, 12H52
 speciation of trace elements in, review, 4H49
 —, —, sea-, analysis of, 4H88B
 assay of alkaline phosphatase in, by fluorimetry, 1H39
 detmn. of amino-acids, pigments, and adenine and related nucleotides in, by h.p.l.c., review, 2H54
 detmn. of amino-acids in, by fluorimetry, 5H79
 by h.p.l.c., 3H62
 detmn. of anions, calcium and magnesium in, by ion chromatography with EDTA as eluent, 12B24
 detmn. of arsenic in, pre-concentration on thionalide-impregnated silica in, 12B109
 detmn. of bismuth in, by stripping voltammetry, 11H45
 detmn. of boron in, crystal violet in spectrophotometric, 7H37
 detmn. of bromide in, by ion chromatography, 6H75
 detmn. of cadmium, lead and zinc in, by potentiometric stripping, 6H58
 detmn. of cadmium and lead in, by anodic-stripping voltammetry, electrode for, 6J187
 by microcomputer-controlled graphite-furnace a.a.s., 5J92
 detmn. of cadmium in, by anodic-stripping voltammetry, 12H53
 detmn. of calcium and magnesium in, by thermometry, 3H40
 detmn. of carbonate and measurement of alkalinity of, by titrimetry, 2H41

Waters, natural, sea—continued

- detmn. of chlorinated phenols in, by g.c., 6H85
 detmn. of chlorophyll *a* in, portable fluorimeter for, 12J102
 detmn. of chromium in, by extraction and co-pptn., 3H48
 detmn. of cobalt-60 in, radiometric, 11H51
 detmn. of copper in, by anodic-stripping voltammetry, 2H37
 by co-pptn. - a.a.s., 11H36
 detmn. of cyanide in, by indirect spectrophotometry, 7B72
 detmn. of dissolved and particulate vanadium in, by XRF, 5H58
 detmn. of dissolved gases in, 5H38
 detmn. of gold and mercury in, by n.a.a., 5H45
 detmn. of gold in, by co-pptn. - n.a.a., 7B76
 detmn. of halocarbons and chlorophenols in, by g.c., 6H82
 detmn. of heavy-metal ions in, by solvent extraction - XRF, 11B13
 detmn. of heavy metals in, by a.a.s., 3H34
 detmn. of hydrocarbon oils in, by solvent extraction, i.r. spectrometry and gravimetry, 6H90
 detmn. of hydrocarbons in, by g.c. or h.p.l.c., 8H77
 detmn. of iodide and iodate in, spectrophotometric, 9H60
 detmn. of iodide in, oxidation - extraction radio-tracer method, 7H51
 detmn. of iron and zinc in, pre-concentration method for, 11H53
 detmn. of lead and zinc in, by a.a.s., 3H32
 detmn. of lead in, by anodic-stripping voltammetry, 12H61
 by graphite-furnace a.a.s., 7H39
 detmn. of manganese in, by differential pulse polarography, 6H74
 by e.s.r., 8H71
 by extraction - a.a.s., 8H72
 detmn. of mercury in, by a.a.s., 10H50, 12H55
 by trapping - cold-vapour a.a.s., 8H53
 detmn. of metals in, by n.a.a., 6H47
 chelating resin for, 2H32
 detmn. of methylmercury in, by gold amalgamation - a.a.s., 9H78
 detmn. of molybdenum-99 in, by n.a.a., 9H55
 detmn. of molybdenum in, by spectrophotometry, 7H48
 detmn. of nickel in, by n.a.a., 3D28
 detmn. of nitrate and nitrite in, by flow-injection analysis, 6H64
 detmn. of nitrate in, by isotope-dilution m.s., 1H33
 detmn. of nitrite in, by voltammetry, 4H63
 detmn. of organic mercury in, by sodium tetrahydroborate reduction, 9D25
 detmn. of organic sulphur compounds in, by g.c. - m.s., 3H70
 detmn. of oxidizable iron^{II} in, controlled-potential coulometric, 12H73
 detmn. of 2-oxo-acids in, by h.p.l.c., as quinoxalinol derivatives, 8D113
 detmn. of particulate matter in, sampling in, review, 5H42
 detmn. of phenols in, by fluorimetry, 4H73
 detmn. of phosphate in, spectrophotometric, 11H41
 detmn. of phosphorus in, Rhodamine 6G and molybdophosphate in fluorimetric, 10B97
 detmn. of phthalates in, by g.c. - m.s., 11H65
 detmn. of proteins in, by colorimetry, 8H81
 detmn. of radon-222 in, trap for, 8H51
 detmn. of selenium in, by a.a.s., 3H49
 modified ion-exchange resin for sorption in, 11B106
 detmn. of silver and cadmium in, by a.a.s. with second-surface atomization, 9J90
 detmn. of silver in, by pptn. and a.a.s., 8H52
 detmn. of tin in, by a.a.s., 3H44
 detmn. of trace elements in, by photo-ionization spectroscopy, 4J141
 by X-ray spectroscopy, 10H45
 review, 2H33
 detmn. of trace heavy metals in, sampler for, 6H50
 detmn. of trace iodine and iodide in, by spectrophotometric titration, 11B121
 detmn. of trace metals in, by a.a.s., 2J73
 by extraction - a.a.s. or anodic-stripping voltammetry, 5H43
 inter-laboratory study of, 5H40
 reference material for, 4A9
 detmn. of trace metals in simulated, by ICP a.e.s., 7B17
 detmn. of ultra-trace metals in, sampler for, 8H44
 detmn. of uranium in, by n.a.a., 3H41, 8H56
 by pptn. - n.a.a., 11H38
 by stripping voltammetry, 5H54
 triethylphosphine oxide-coated electrode for voltammetric, 3H42
 detmn. of vanadium in, by a.a.s., 5H62
 extraction of dissolved organic matter from, by adsorption on resin, 5H76
 extraction of fatty acids from, by liquid chromatography, 3H59
 extraction of petroleum hydrocarbons from, 8H90
 extraction of trace metals from, two-coil system for, 12B18
 identn. of oils in, by i.r. spectrophotometry, 5H77
 identn. of oil spills in, system for, 6H91
 measurement of alkalinity of, by microcomputer-controlled titrimetry, 2H42
 with glass electrode, errors of, 5H46
 measurement of COD in, removal of chloride with silver sulphate in, 12H80
 —, **potable**, adsorption of phenols and humic acids from, 11H60
 concentration of lead from, 5H55
 detmn. of alkali metals in, by graphite-furnace a.e.s., 9B15
 detmn. of aluminium in, by graphite-furnace a.a.s., 8D24

Waters, potable, detmn. of aluminium in,—continued

- spectrophotometric, 10D34
 detmn. of anionic surfactants in, by extraction - spectrophotometry, review, 8H86
 detmn. of anions, calcium and magnesium in, by ion chromatography with EDTA as eluent, 12B24
 detmn. of anions in, by ion chromatography, automated, 12H43
 detmn. of arsenic in, by a.a.s., 2H44, 11H40
 by automated a.a.s., 5H66
 by photometry, 5H57
 detmn. of barium, sodium, potassium, arsenic and selenium in, by a.a.s., 9H40
 detmn. of boron in, by fluorimetry in continuous-flow system, 4H61
 detmn. of cadmium, copper, lead and zinc in, by a.a.s., sampling and pre-concentration in, 9H38
 detmn. of cadmium in, in presence of selenium and iodide, by anodic-stripping voltammetry, 9H45
 detmn. of carbamate pesticides in, by h.p.l.c. with post-column reaction, 7G36
 detmn. of chlorinated phenols in, by g.c., 6H85
 detmn. of chlorine, chlorine dioxide, chlorate and chlorite in, by electrometric titration, 7H53
 chlorine dioxide and chlorite in, sensitivity of Palin's method for, 11H50
 detmn. of chlorine dioxide and chlorite in, colorimetric, 9H63
 detmn. of chlorine in, by potentiometry, 5H70
 detmn. of chloroform in, by capillary g.c., 1J48
 detmn. of chloronaphthalenes and PCB in, by room-temp. phosphorescence, 7H68
 detmn. of cobalt in, chemiluminescence detection in continuous-flow and flow-injection, 7B129
 detmn. of copper in, indirect spectrophotometric, 5B34
 detmn. of dissolved oxygen in and measurement of conductivity of, automated, 9H56
 detmn. of elements in, by PIXE, 4H53
 detmn. of fluoride in, 1H35
 detmn. of geosmin and 2-methylisoborneol in, by g.c. - m.s., 4H75
 detmn. of halogenated organic compounds in, by g.c. - microwave-induced plasma emission spectrometry, 7H60
 detmn. of heavy metals in, by stripping voltammetry, 5H49
 detmn. of hydrocarbon oils in, by solvent extraction, i.r. spectrometry and gravimetry, 6H90
 detmn. of inorganic anions and carboxylic acids in, by ion chromatography, 3H29
 detmn. of iodine and iodide in, colorimetric, 10H61
 detmn. of iron and manganese in, by a.a.s., 10H64
 detmn. of iron in, by ion flotation - spectrophotometry, 10H62
 by spectrophotometry, 6B149
 extraction - fluorimetric, 3B88
 detmn. of lead in, by a.a.s., 5H56
 sodium interference in, 6H59
 by anodic-stripping voltammetry, 12H61
 detmn. of lower halogenated hydrocarbons in, xylene as extractant for, 7H61
 detmn. of manganese and zinc in, simultaneously, by spectrophotometry, 6B143
 detmn. of mercury in, by a.a.s., 8F52
 detmn. of molybdenum in, by a.a.s., 9B128
 detmn. of nitrate, chloride and sulphate in, by capillary free-zone electrophoresis, 3H37
 detmn. of nitrate in, by isotope-dilution m.s., 1H33
 by spectrophotometry, 1H34
 detmn. of organic chemicals in and organoleptic properties of, review, 8H75
 detmn. of organic compounds in, 2H19
 by g.c., 1H40
 detmn. of organic contaminants in, 5H74
 sampling criteria for, 11H56
 detmn. of organophosphorus and carbamate pesticides in, enzyme electrode for, 5H82
 detmn. of oxidizing agents in, instrumental, review, 7H29
 detmn. of ozone in, bis-(2,2',2''-terpyridyl)iron^{II} in spectrophotometric, 12H68
 by iodimetry, 4H66
 detmn. of PAH in, by t.l.c. - fluorimetry, 10H82
 detmn. of paraquat in, by colorimetry after Sep-Pak C₁₈ extraction, 7D101
 detmn. of pentachlorophenol in, by h.p.l.c., 11H70
 detmn. of phenols in, by h.p.l.c., automated sample preparation and injection for, 4J19
 detmn. of phosphate in, by catalytic d.c. polarography, 2B57
 by flotation - spectrophotometry, 5H60
 spectrophotometric, 11H41
 detmn. of phosphorothioate pesticides in, by g.c., pre-concentration technique for, 4H78
 detmn. of selenate, selenite and arsenate in, by ion chromatography, 10H57
 detmn. of selenium in, by a.a.s., 3H49
 detmn. of sulphate in, by spectrophotometry, 1B99
 detmn. of total trihalomethanes in, spectrophotometric, 10H76

Waters, potable,—continued

- detmn. of trace elements in, by ICP a.e.s. and a.a.s., 1H24
 by XRF, pre-concentration for, 6H42
 detmn. of trace organic compounds in, by g.c., 10H70
 sampling for, 10H71
 detmn. of traces of copper in, reagent for fluorimetric, 6B45
 detmn. of tributoxethyl phosphate in, by g.l.c., sampling for, 8H93
 detmn. of vinyl chloride in, by g.l.c., 9H70
 detmn. of volatile organic compounds in, by capillary g.c. with e.c.d., 9H69
 detmn. of zinc in, by spectrophotometry, 3H36
 porphine derivative in spectrophotometric, 9B44
 measurement of hardness of, by flow-injection spectrophotometry, 10H49
 quality control of, 12A1B
 sorption of organic compounds from, adsorbent for, 6H81

Waxes, analysis of, by m.s. - m.s., 9C89

- analysis of epicuticular, of maize, by g.l.c., 12D110
 characterization of, by g.l.c., 6C33
 by saponification, hydroxyl, iodine and acid values, 10H92
 detmn. of, in water, spectrophotometric, 8H94
 detmn. of residual solvents in, by g.l.c., 5C73
 sepn. of lipolysis products of, by t.l.c., 7C100

Wax esters, analysis of, by m.s. - m.s., 9C89**Weighing, balances for, computer-controlled, 1J3****Welding fumes, detmn. of chromium and nickel in, spectrophotometric, 9B126****Whale oil, analysis of, by m.s. - m.s., 9C89**

- Wheat, amino-acid sequencing of prolamins and glutelins of, by ion-exchange chromatography, 9C66**
 analysis of, by n.a.a., mineralization in, 5G1
 by near-i.r. spectrometry, 6F73
 assay of β -amylase in, by spectrophotometry, 6G5
 detmn. of abscisic acid in leaves of, by h.p.l.c. or r.i.a., 9G14
 detmn. of aphos in, by g.l.c. and t.l.c., 5G38
 detmn. of carbaryl in, by h.p.l.c., 1G18
 detmn. of cyclopirolic acid in, colorimetric, 10F10
 detmn. of deoxynivalenol in, by g.c., 7G4
 by g.l.c., 9G5
 by h.p.l.c., 10F11
 by t.l.c., 10G3, 10G4
 detmn. of imidazolidine-2-thione in, by capillary g.c., 10G21
 detmn. of moisture in, microwave oven in, 6G1
 detmn. of molybdenum in, by ion exchange - spectrophotometry, 4D57
 detmn. of naphthalene in bran and germ of, by g.c., 10F16
 detmn. of nitrogen in, by combustion and g.c., 11D26
 detmn. of ochratoxin A in, by enzyme-linked immunosorbent assay, 10G5
 detmn. of pesticides in, by g.l.c. and h.p.l.c., 7G33
 detmn. of phosphine in, spectrophotometric, 10G24
 detmn. of proteins and moisture in, by near-i.r. spectrophotometry, 3G2
 detmn. of proteins in, by gel electrophoresis, 7G6
 by near-i.r. reflectance spectrometry, 3F13
 calibration for, 6G3
 detmn. of pyrethroid insecticides in, by g.l.c. - e.c.d., 7G37
 detmn. of trichothecene mycotoxins in, by g.l.c., 3G1
 detmn. of water and protein in, by near-i.r. spectrometry, 7F84
 detmn. of zearalenone in, by h.p.l.c., 5G25
 sepn. of gliadin proteins of, by polyacrylamide gel electrophoresis, 2G4
 sepn. of proteins of germinating, by h.p.l.c., 12G1

Wheat germ, detmn. of naphthalene in, by g.c., 10F16**Wheat meal, detmn. of dietary fibre in, 2F1****Wheat products, detmn. of phytate in, by ion exchange, 2F5****Whey, detmn. of lactose in powdered, automated spectrophotometric, 10F37****sepn. of proteins in bovine, by two-dimensional electrophoresis, 9F33****Whisky, detmn. of low-mol.-wt. compounds in, by g.c., head-space or split injection in, 11J53****detmn. of phenols in matured, by g.l.c. as 2,4-dinitrophenyl ethers, 8F61****by h.p.l.c., 8F62****Wine, analysis of, by g.c., micro-reactor for removal of organic acids in, 6J73****by h.p.l.c., review, 3F30****analysis of white, statistical comparison of results of, 11F32****detmn. of acetaldehyde in, by h.p.l.c. after derivatization and extraction, 4F48****detmn. of alcohols in, by g.l.c., 4F62****detmn. of aldehydes in, by g.l.c., 3H58****detmn. of amines in, derivatization - fluorimetric, 8F60****detmn. of amino-acids in, by h.p.l.c. of dansyl derivatives, 10F64****detmn. of biogenic amines in, by h.p.l.c., 5F52****detmn. of carboxylic acids in, as *p*-nitrobenzyl esters, by h.p.l.c., 11F30****by paper chromatography, 4F72****detmn. of cyanide in, by spectrophotometry, 7F89****detmn. of dehydroacetic acid in, by g.l.c., 2F36****detmn. of ethanol in, by g.l.c., 4F73****with enzyme electrode, 11F33****detmn. of fluoride in sherry-type, by potentiometry, 12F38****Wine—continued****detmn. of imidazolidine-2-thione in, by capillary g.c., 10G21****detmn. of iron^{III} in, phenanthrene-9,10-quinone monoxime in colorimetric, 11B126****detmn. of low-mol.-wt. compounds in, by g.c., head-space or split injection in, 11J53****detmn. of malvin in, by fluorimetry and by t.l.c. - spectrophotometry, 12F35****detmn. of metals in, by flame photometry and a.a.s., 12F36****detmn. of metals in Italian red, by ICP a.e.s., 10F65****detmn. of nitrite and sulphite in, by ion chromatography with quenched-phosphorescence detection, 12B103****detmn. of phenols in and measurement of acidity of, by thermometric titrimetry, 9F49****detmn. of phosphate in, by spectrophotometry or spectrofluorimetry, 5B166****detmn. of polyphenols in, by spectrophotometry, 7F88****dimethylformamide in sample storage for, 8F59****detmn. of reducing sugars in, by complexometric titration, metallochromic indicator for, 11A14****detmn. of styrene in, indirect fluorimetric, 7C34****detmn. of sulphate in, by photometric titration, 3F31****detmn. of sulphite in, by gas-phase u.v. absorption spectrophotometry, 7F87****detmn. of tartaric acid in, colorimetric, 9F50****detmn. of trace elements in reference standard of, by n.a.a., 9F4****detmn. of volatile organic compounds in, by g.l.c., 3F29****sepn. of carboxylic acids of, by paper chromatography, 11C11****sepn. of polyphenols in, by t.l.c., mobile phase for, 3J47****Wine vinegar, detmn. of amino-acids in, by h.p.l.c. of dansyl derivatives, 10F64****Wire, surface analysis of, review, 9B5****Wood, analysis of oil derived thermochemically from, by g.c. - m.s., 11C62****detection of polyoxyethylene glycols in, colour tests for, 6C49****detmn. of arsenic, chromium and copper in fungicide-treated, spectrometric, 9C73****detmn. of bound carboxylic acids in, by displacement and titration, 5C95****detmn. of chlorinated preservatives in, by colorimetry or g.l.c., 6C50****detmn. of MCPA in, by g.c. and m.s., 5G31****detmn. of neutral sugars in, by g.c., 12D115****detmn. of nitrogen in, automated, 8C4****detmn. of organic acids in hydrolysates of, isotachophoretic, 10C73****detmn. of pentoses in, in presence of glucose, orcinol in spectrophotometric, 3C63****detmn. of trace elements in tree, by ICP a.e.s., 12D14****sepn. of hydrothermal degradation products of, by h.p.l.c., 11C61****Wood products, detmn. of adhesives in, 11C63****Wood's metal, detmn. of bismuth in, electrode in direct potentiometric and potentiometric titrimetric, 9B110****Wool, detection of polymers on, by staining - fluorescence microscopy, 4C87****detmn. of active chlorine and other oxidizing groups in chlorinated and weathered, iodimetric, 6C52****detmn. of alcohol-extractable matter in, inadequacy of near-i.r. reflectance spectrometry for, 11C69****detmn. of amino-acids in treated, by g.c. - m.s., 11C70****detmn. of dehydroalanine and amides in, as index of damage by alkali, 10C75****detmn. of insect-proofing agents on, by h.p.l.c., 4C88****detmn. of shrink-resist polymers on, by dye staining, 7C89****detmn. of water in, by measurement of dielectric constant, 2C66****identn. of keratins in, radio-labelling by amidination and electrophoresis for, 4D256****identn. of synthetic fibres in blends with, 12C67****Wool alcohols ointment, identn. of ingredients of, by h.p.l.c., 2E53****X****Xanthate, butyl-, detmn. of, copper^{II} in titrimetric, 10C28****in waste water, by extraction - a.a.s., 12H102****—, ethyl-, detmn. of, copper^{II} in titrimetric, 10C28****—, pentyl-, detmn. of, copper^{II} in titrimetric, 10C28****Xanthates, detmn. of, by visual or potentiometric titration, 7C30****Xanthen-9-one, 2-chlorothio-, detmn. of, in chlorprothixene, thermal, 10E25****Xanthenones, detmn. of, of *Gentiana*, by h.p.l.c. with post-column derivatization, 9D220****Xanthine, detmn. of, by ion-exchange chromatography, 6D277****in cerebrospinal fluid, by h.p.l.c., 2D222****in heart, by h.p.l.c., 2D217****in insect eggs, by h.p.l.c., 10D239****in plasma and urine, by h.p.l.c., 4D288****in serum and urine, by h.p.l.c. with enzyme reactors, 5D226****sepn. of, by ion-pair h.p.l.c., 12D211****Xanthine oxidase, assay of, in tissues, by enzyme immunoassay, 6D291****Xanthinol nicotinate, detmn. of 1,3-bis(theophyllin-7-yl)propan-2-ol in preparations containing, by densitometry after t.l.c., 8E49**

Xanthomegnin, detmn. of, in rice, by h.p.l.c., 4F25
Xenobiotics, sepn. of metabolites of, in biological fluids, by ion-exchange chromatography, 2D123
Xenopus, detection of mono(adenosine diphosphate ribosyl) transferase in, by zymographic localization in sodium dodecyl sulphate - polyacrylamide gels, 10D252
X-ray analysis, radioisotopic channel in phase, 11J73
X-ray diffractometry, in analytical chemistry, 11A6B
 phase identification by, information content of powder diffractograms for, 8J81
Xylene, detmn. of, in air, by g.l.c., 3H17
 detmn. of sulphur in, by ICP a.e.s., 9C24
 sepn. of isomers of, by g.l.c., liquid-crystal stationary phases for, 8J58
m-Xylene, sampling of, in air, by sorption on activated carbon, 4H39
o-Xylene, detmn. of, in phthalic anhydride, by g.c., 5C47
Xylenes, detmn. of, in air, by g.c., 4H41
 in toluene, by g.c., 2C26
Xylenol, sepn. of isomers of, by g.l.c., 2E49
2,4-Xylenol, extraction of, from water, cyclohexyl bonded-phase sorbent in, 11H64
Xylidide, glycine-, detmn. of, in plasma, by h.p.l.c., 12D86
—, monoethylglycine-, detmn. of, in plasma, by h.p.l.c., 12D86
Xylitol, detmn. of, by g.l.c., 3C11
Xylobiose, detmn. of, by h.p.l.c., 7D111
Xyloheptose, detmn. of, by h.p.l.c., 7D111
Xylohexose, detmn. of, by h.p.l.c., 7D111
Xylometazoline hydrochloride, detmn. of, cobalt thiocyanate in spectrophotometric, 11E20
Xylopentose, detmn. of, by h.p.l.c., 7D111
Xylose, detmn. of, by h.p.l.c., 7D111
 in plasma and urine, by capillary-column g.c., 10D121
 in tobacco leaves, by g.l.c., 11D120
 in wood, in presence of glucose, orcinol in spectrophotometric, 3C63
 g.c. - m.s. of TMS derivatives of, 9C8
 sepn. of, by h.p.l.c., 2C13
Xylosyltransferase, assay of, with silk as substrate, 10D253
Xylotetrose, detmn. of, by h.p.l.c., 7D111
Xylotriose, detmn. of, by h.p.l.c., 7D111

Y

Yeast, assay of lactoyl-glutathione lyase in, 8D255
 assay of proteinase A of, by fluorimetry, 5D243
 detmn. of chromium in, by a.a.s., 2G1
 detmn. of ergosterol in brewers', by h.p.l.c., 10F62
 detmn. of nucleotides in cell extract of, by computerized h.p.l.c., 8D219
 detmn. of proteins in, by n.m.r., 5F5
Yogurt, analysis of, by h.p.l.c., review, 9F30
 detmn. of acetaldehyde in, by h.p.l.c. after derivatization and extraction, 4F48
 detmn. of artificial sweeteners in, by h.p.l.c., 7F23
 detmn. of benzoic and sorbic acids in, by h.p.l.c., 10F48
 detmn. of styrene in, by g.l.c. and h.p.l.c., 11F11
 detmn. of sugars in, by g.l.c. of TMS derivatives, 4F47
Yohimbin, detmn. of, in plasma, by h.p.l.c., 11D46
Ytterbium, detmn. of, by laser-enhanced atomic ionization, 1B55
 chlorophosphonazo-mN in spectrophotometric, 5B87
 in mixtures, by n.m.r., 3B55
 in uraniferous rock, by a.a.s., 10B61
 vaporization in a.a.s., 5B104
 extraction of, in presence of perchlorate, diantipyrinylmethane in, 5B97
 sepn. of, from other heavy lanthanoids, by ion-exchange chromatography, 10B66
Yttrium, detmn. of, *NN*-bis-(8-hydroxyquinolin-2-yl)methylamine in luminescence, 6B78
 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol in spectrophotometric, 10B64
 by a.a.s., intra-cavity laser apparatus for, 7B59
 by ICP a.e.s., interference by organic acids and solvents in, 3B51
 by reversed-phase paper chromatography, 2B35
 by spectrophotometry, 3B50
 chlorophosphonazo-mN in spectrophotometric, 5B87
 in alloys, in presence of aluminium, by spectrophotometry, 6B68
 in aluminomagnesium spinel, by XRF, 4B195
 in aq. and acid soln., h.f. generator with argon plasma for, 4J124
 indirect spectrophotometric, 5B90
 in minerals, ores and rocks, by spectrophotometry, 5B88
 in nickel alloys, spectrophotometric, 12B155
 in silicates, by energy-dispersive X-ray spectrometry, 11B74
 in steel, by spectrography, hollow-cathode discharge tube for, 5B236
 in titanium alloys, by ICP a.e.s., 12B94
 in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80
 in yttrium oxide - uranium oxide mixtures, 5B91
 in zirconium dioxide, spectrographic, 11B84
 detmn. of trace, in phosphoric acid, by ICP a.e.s., interference in, 11B93
 extraction of, tall oil and pyridine in, 12B25

Yttrium, extraction of, —continued
 with tributyl phosphate, 5B92
 purpurin as reagent for, 5B25
 sepn. of, from strontium, by column chromatography on manganese dioxide, 4B64
 solvent extraction of, 4B27
Yttrium chloride, detmn. of copper in, spectrophotometric, 3B33
Yttrium oxide, detmn. of, in ores and concentrates, by XRF, 11B8
 sepn. of rare-earth impurities from, by extraction chromatography, 5B93
Yuzu oil, analysis of, by g.l.c., 4F52

Z

Zeaxanthone, detection of, in paprika, by g.l.c., 4F59
 detmn. of, in cereals, by h.p.l.c., 5G25
 in chicken tissues, by h.p.l.c., 8F30
 in flour and feed, by t.l.c., 3G11
 in foods, by h.p.l.c., review, 10F12
 in maize, by g.c. - m.s. with selected-ion monitoring, 9G2
 in mouldy food, by t.l.c., 5F6
Zeatin, detmn. of, in plant material, by g.l.c., 5G26
 sepn. of, from other cytokinins, by h.p.l.c., 5G28
—, 9-alanyl-, purification of, by h.p.l.c., 5G28
—, dihydro-, detmn. of, in plant material, by g.l.c., 5G26
Zeatin O-glucoside, sepn. of, from other cytokinins, by h.p.l.c., 5G28
Zeatin riboside, detmn. of, in plant material, by g.l.c., 5G26
 sepn. of, from other cytokinins, by h.p.l.c., 5G28
—, dihydro-, detmn. of, in plant material, by g.l.c., 5G26
Zeaxanthin, sepn. of isomers of, by h.p.l.c. of dicarbamate derivatives, 6D267
Zein, detmn. of, by ELISA, 11D197
 by immunobinding, 4D251
Zeolites, analysis of, by γ -ray emission spectrometry and PIXE, 3B111
 detmn. of silica in, by direct-injection enthalpimetry, 5B136
Zeranol, detection of, in tissues of cattle and sheep, review, 5D104
Zimelidine, detection of, and its metabolites, by h.p.l.c. with computer-aided detection, 10J37
Zinc, detection of, in semen stains, 4D36
 detmn. of, 2-acetylpyridine benzoylhydrazine in a.a.s., 10B10
 as complexes with organic compounds, by optoacoustic spectrometry, 4B18
 azobenzene-2,2'-diol in fluorimetric and spectrophotometric, 9B45
 by a.a.s., reagent for, 4B15
 by a.a.s. after co-pptn. with naphthalene, 9B40
 by a.a.s. with concentric-tube atomizer, 9B11
 by a.f.s. with tungsten-spiral atomizer, 10J102
 by anodic-stripping voltammetry, automatic compensation for cathode area in, 3J118
 electrode for, 3J117
 by complexometric or pptn. titration, aromatic amines and diamines as catalytic indicators in, 1B12
 by complexometric titration, indicator for, 5B63
 by complexometry with 1-(2-pyridylazo)-2-naphthol as indicator, effect of non-ionic surfactants on, 5B16
 by conductometric titration with 3,5-xylidine-*NN*-diacetate, 5B13
 by coulometric titration with EDTA, 7B42
 by c.s.r. spectrometry, 6B59
 by flow-injection potentiometric stripping, 9J139
 by furnace atomic non-thermal excitation spectrometry, 6J135
 by g.c. as dialkylthiocarbamate chelates, 1B14
 by h.p.l.c., 3B11, 6B46
 by paper chromatography - a.a.s., 10B3
 by polarography, 12B49
 in propane-1,3-diamine medium, 1B36
 by spectrophotometry with 3-methylcyclopentane-1,2-dione bis-(thiosemicarbazone), 5A8
 by stable-isotope-dilution activation analysis, 6J164
 by titration, in presence of 1-(2-pyridylazo)-2-naphthol and surfactant, 9B39
 with quinoline-8-thiol and its methyl derivatives, 4B113
 by voltammetry of dialkylthiocarbamate complex, 9B141
 by XRF, after pre-concentration on Capriquat-treated silica gel, 9B43
 catalytic-kinetic spectrophotometric, 12C22
 2-(5-chloro-2-pyridylazo)-5-dimethylaminophenol in spectrophotometric, 10B43
 2,3-dihydroxybenzaldehyde 2-benzothiazolylhydrazone in fluorimetric, 10B44
 enzyme electrode for monitoring catalytic oxidation in, 3J106
 fluorimetric, surfactants in, 8B14
 in air, by differential pulse anodic-stripping voltammetry, 5H14
 by PIXE, 10H3
 in air-borne particulates, by flame a.a.s., 2H13
 in aluminium, by ICP a.e.s., 6B69
 in aluminium alloys, by a.c. polarography, 1B44
 in aluminium-based and copper-based alloys, by γ -activation spectrometry, 4B47
 in aluminomagnesium spinel, by XRF, 4B195

Zinc, detmn. of.—continued

- in amniotic fluid, by n.a.a., 1D21
- in beans, by ion chromatography, 5F2
- in beef and bovine organs, by voltammetry, 12D37
- in beer, by a.a.s., 8F58
- in beneficiation products of ores, by a.a.s., 9B9
- in biological and environmental materials, by flow-injection a.a.s., 1D19
- by voltammetry, 12D24
- in biological materials, by a.a.s., contamination in, 10D16
- by XRF, effect of sample-dissolution procedures on, 1D33
- in biological tissues, by a.e.s., optimization of volatilization in, 5D37
- in blood, by instrumental n.a.a., 8D13
- by porous-layer electrochemistry, 7D21
- effect of heparin sodium on, 12D26
- liver or fruit juice, by voltammetry or a.a.s., sample pre-treatment in, 4D26
- in blood plasma, by a.a.s., with continuous flow, 5D22
- in blood plasma and erythrocytes, by a.a.s., 2D22
- in blood plasma or urine, by a.a.s., contamination from collection tubes in, 4D35
- in blood platelets, by n.a.a. and a.a.s., 12D25
- in blood serum and plasma, 12D20
- by flame a.a.s., 11D17
- in bronzes used in making superconducting alloys, by XRF, 7B29
- in canned fish, by a.a.s., 7F45
- in Chinese cabbage, by a.a.s., digestion methods for, 10F51
- in coal, by differential pulse polarography, 8B132
- in copper-based alloys, by a.a.s., 4B48
- in copper sulphate, by titration after co-pptn. with hydrated manganese dioxide, 4B49
- in copper - zinc alloys, by emission spectrometry, comparison of glow-discharge and ICP excitation in, 4B46
- in corrosion-resistant coatings on steel, by XRF, 5B233
- in crude oil, by a.a.s., 8C52
- indicator system for titrimetric, 10B12
- in eggs, by a.a.s., 2F22
- in environmental materials, methods and computer program for, 12H4
- in erythrocytes and plasma of pregnant women, by PIXE, 12D17
- in ferrites, by coulometric titration, 8B37
- in fertilizers, ion-selective electrode in, 4G15
- in fly ash, by ICP a.e.s., 12J99
- in greases, by a.a.s., 4C59
- in green or red peppers, by a.a.s., 12F27
- in hair, by PIXE, 4D55
- in high-purity rare-earth metals, tap-water and hair, porphine derivative in spectrophotometric, 9B44
- in human, cow's and powdered milks, by a.a.s., 11F20
- in human hair, by a.a.s., 5D25
- in indium phosphide, by proton-activation analysis, 12B186
- in industrial wastes, by polarography, 5B12
- in iron alloys, 8B120
- in iron artefacts, by n.a.a. and a.a.s., 11B14
- in iron - manganese nodules, by a.f.s., 4B19
- in low-temp. carbon monoxide-conversion catalyst, complexometric, 7B158
- in magnesium salts and zinc, by differential pulse polarography, 1B33
- in maize oil, by a.a.s., sample preparation for, 2F42
- in manganese ores, by oscillography, 5B212
- in mineral waters, by differential pulse anodic-stripping voltammetry, 2H34
- in motor oil, by ICP a.e.s., 6J138
- in multivitamin tablets, by anodic-stripping voltammetry, 3E17
- in natural waters, by differential pulse anodic-stripping voltammetry, 4H55
- spectrophotometric, 9H44
- in nickel and nickel-based alloys, by differential pulse anodic-stripping voltammetry, 9B157
- in phosphate rock reference material, 5A16
- in plants, by a.a.s. and emission spectroscopy, 5D24
- by hydrochloric acid extraction, 11G1
- in potable water, by a.a.s., sampling and pre-concentration in, 9H38
- by stripping voltammetry, 5H49
- in potassium polyphosphate fertilizer, b/ a.c. polarography, 5G19
- in presence of cadmium, by complexometric titration, 2B26
- in presence of uranium, by XRF, 8B13
- in roadside dust, by a.a.s., 3H5
- in rocks and soils, by a.a.s., 1B151
- by emission spectroscopy, 7B47
- in sea- and waste water, by solvent extraction - XRF, 11B13
- in sea-water, by a.a.s., 3H32, 3H34
- by extraction - a.a.s. and/or anodic-stripping voltammetry, 5H43
- by potentiometric stripping, 6H58
- pre-concentration method for, 11H53
- review, 2H33
- in sediment, by a.a.s. or anodic-stripping voltammetry, decomposition in, 6H48
- by cyclic stripping voltammetry, 2H38
- in serum, by a.a.s., 9D24

Zinc, detmn. of, in serum.—continued

- sampling tubes for, 2D19
- by anodic-stripping voltammetry, 10D31
- by flameless a.a.s., 4D37
- by flow-injection analysis - a.a.s., 10D30
- by flow injection - ICP a.e.s., 10D20
- by ICP a.e.s., 1D17
- by PIXE, 12D45
- in silicate rocks, by a.a.s., 4B108
- in silicates, by energy-dispersive X-ray spectrometry, 11B74
- in silicon, by spectroscopy, 4B103
- in soil, 5G10
- colorimetric, 12G3
- in soil and sewage-sludge-treated soil, by a.a.s., 5G9
- in solid wastes, polarographic, 10H95
- in soln., by enzymic reaction, 5B64
- in synthetic sea-water, by ICP a.e.s., 7B17
- in tap-water, in presence of manganese, by spectrophotometry, 6B143
- in tears, by a.a.s., 2D15
- in tellurium, by n.a.a., 1B103
- in tomatoes and tomato products, by a.a.s., 12F28
- in triuranium octaoxide, by a.a.s., 4B97
- in urban aerosols, by XRF, 6H13
- in urban dust, by a.a.s., optimized extraction procedure for, 4H15
- in urine, by XRF after pre-concentration on chelating filter, 4D59
- in uterine tissue, by PIXE, 5D36
- in waste water, by polarography and anodic-stripping voltammetry, 3H72
- by stripping voltammetry, 5H89
- by XRF, 7H73
- in water, by a.a.s. after pre-concentration on polyurethan foam, 8H49
- spectrophotometric, 12H57
- sugar, starch and salt, by spectrophotometry, 3H36
- voltammetric, 9H46
- in water and waste water, decomposition of organic matter in, 12H50
- in wine, by flame photometry and a.a.s., 12F36
- in zinc concentrates and fumes, by extraction - EDTA titration, 7B43
- in zinc - lead ores, by XRF, 11B36
- 2-methyl-4-(2-thiazolylazo)resorcinol as indicator in titrimetric, 10B21
- reagent system for extraction - spectrophotometric, 11B34
- sodium dibutylselenocarbamate in spectrophotometric, 12B16
- sodium 1,2-naphthoquinone-4-sulphonate 2-semicarbazone in spectrophotometric, 10B20
- spectrophotometric, review, 3B18
- sulphonated azo-dyes in spectrophotometric, 2B6
- 5,10,15,20-tetraphenylporphinetrisulphonic acid in fluorimetric, 9B41
- twin-probe slit apparatus in X-ray, 1B6
- detmn. of aluminium in, by polarography, 5B66
- detmn. of bound, in tea and coffee, by h.p.l.c. with post-column derivatization, 6F70
- detmn. of cadmium in, by extraction - differential pulse anodic-stripping voltammetry, 11B37
- detmn. of thallium in, by flameless a.a.s., 5B67
- detmn. of trace, extraction - spectrophotometric, 9B21
- in food and biological reference materials, by n.a.a., 9F4
- in liver, by a.a.s., 9D20
- in milk, kinetic - fluorimetric, 6F47
- in serum and liver, by a.a.s., 9D19
- in water, by a.a.s., 6B25
- detmn. of trace metals in, by differential pulse polarography, 1B33
- detmn. of ultra-filtrable, in plasma, by a.a.s., 6D34
- extraction of, as chloride, with Amberlite LA-1, 4B65
- as thiocyanate complexes, 4B66
- ethylxanthate in, 9B42
- from alkaline soln., 7-(3,3,5,5-tetramethyl-1-vinylhexyl)quinolin-8-ol in, 10B15
- from river water, by flotation, 4H52
- from sediment and soil, effect of extractant pH on, 12H48
- from water, by adsorption on iminodiacetic acid - cellulose, 2H31
- tall oil and pyridine in, 12B25
- with dithiocarbamates, 6B22
- g.l.c. of, as diethyldithiocarbamate, 10B161
- loss of atomic vapour of, during graphite-furnace a.a.s., 9J88
- purpurin as reagent for, 5B25
- sepn. of, by chromatography, reagents for, 5B22
- by ion flotation, 4B17
- from other bivalent cations, by chromatography on zirconium molybdate, 3B2
- from other radio-tracers, by paper chromatography, 4B21
- sepn. of radiotracers of, by h.p.l.c., 10B19
- speciation of, in water, by Donnan dialysis, 12H52
- Zinc alloys**, analysis of cadmium-containing, by voltammetry, 1B40
- detmn. of aluminium in, by titrimetry, 2B27
- detmn. of lead in, spectrophotometric, 7B45
- detmn. of mercury in, thiocyanate in titrimetric, 2B30
- detmn. of trace metals in, by a.a.s. after co-pptn. by hexahydroazepine hexahydroazepine-1-carbodithioate, 7B44

Zinc complexes, detmn. of, in lubricating oils, by g.c., 2C49

Zinc diethyldithiocarbamate, sepn. of, from nickel analogue, by g.l.c., 10B161

Zinc ointment, identn. of ingredients of, by h.p.l.c., 2E53

Zinc ores, detmn. of germanium in, by spectrophotometry, 6B97

detmn. of lead in, by XRF, 1B74

detmn. of mercury in, spectrophotometric, 5B70

detmn. of selenium in, in presence of lead and copper, by a.a.s., 11B35

detmn. of zinc in concentrate of, by extraction - EDTA titration, 7B43

Zinc oxide, detmn. of, in ammonium chloride zinc-plating electrolytes, by spectrography, 1B37

detmn. of fluoride in, ion-selective electrode in, 4G10

detmn. of zinc in fumes of, by extraction - EDTA titration, 7B43

Zinc selenide, sepn. of trace elements from, 12B185

Zinc sulphate, analysis of electroplating soln. of, by h.p.l.c., 4B67

detmn. of silver in, chronovoltammetric, 10B40

Zinc sulphide, detmn. of iron, cobalt, nickel and copper in, by extraction - spectrophotometry, 9B46

extraction - spectrographic, 10B45

detmn. of silver in, by stripping chronovoltammetry, 5B65

Zineb, detmn. of, by indirect voltammetry, 9B141

degradation during methanol and water extraction in, 11G32

in fruit and vegetables, by g.c. - a.a.s., 3G18

Zipeprol, identn. of, microscopic and chemical, 1E1

Ziram, detmn. of, by indirect voltammetry, 9B141

by spectrophotometry of evolved carbon disulphide, 4G37

Zircaloy 2, analysis of, by X-ray-induced photoelectron ionization, deconvolution of spectrum in, 5A37

Zircaloy 4, detmn. of hafnium in, by spark-source m.s., 12B99

Zircon, detmn. of rare-earth metals in, by spark-source m.s., 5B94

Zirconium, detmn. of, azobenzene-2,2'-diol in fluorimetric and spectrophotometric, 9B97

azo-derivatives of catechol in spectrophotometric, 12B98

biacetyl monoxime nicotinoylhydrazine in fluorimetric, 12B92

by amperometric titrimetry, 4B117

by extraction - photometry, 5,7-dibromo-8-hydroxyquinoline in, 4B118

by fluorimetry, 8B75

by spectrophotometry, after extraction with anion exchanger, 5B159

azopyrazolone reagent for, 1B78

by spectrophotometry as molybdoarsenozirconic acid, 11B83

by spectrophotometry with biacetyl bis(isonicotinoylhydrazine), 5B160

cinnamohydroxamic acids in spectrophotometric, 2B4

4,5-dibromophenylfluorone and surfactants in spectrophotometric, 8B74

5,7-dibromoquinolin-8-ol in extraction - photometric, 9B100

EDTA and stilbazo in spectrophotometric, 9B98

ethyl 4-cyano-5-(3,4-dihydroxyphenylazo)-3-methylthiophene-2-carboxylate in spectrophotometric, 11B80

fluorimetric, surfactants in, 8B14

in air-borne dust, 8H14

in alloys, by fluorimetry, 10B92

in aluminium alloys, by intermittent-arc spectrography, 12B57

in biological materials, by photon-activation analysis, 11D23

in bronzes used in making superconducting alloys, by XRF, 7B29

in iron and steel, by spectrophotometry, 1B121

in presence of bismuth, extraction - spectrophotometric, 9B108

in presence of hafnium, by spectrophotometry, 6B106

in red mud, review, 1B47

in rocks, by spectrography, 1B8

in silicates, by energy-dispersive X-ray spectrometry, 11B74

in steel, sulphonitrazo E in spectrophotometric, 1B124

in uranium and titanium minerals, by ion-exchange chromatography - spectrophotometry, 9B80

in varnish, by spectrophotometry, reagent for, 2C75

1-(2-pyridylazo)-2-naphthol in spectrophotometric, 9B99

simultaneously with other metals, in biological materials, by ICP a.e.s., 12B15

2,6,7-trihydroxy-9-(3-nitrophenyl)xanthen-3-one in spectrophotometric, 7B83

detmn. of boron in, by ICP a.e.s., 11B40

detmn. of cadmium in, by ICP a.e.s., 10B91

detmn. of hafnium in, by isotope dilution - n.a.a., 6B107

by spark-source m.s., 12B99

detmn. of uranium in, by cation exchange - spectrophotometry, 9B101

extraction of, from carbonate soln., alkylcatechol in, 5B126

sepn. of, from thorium, 4-bromomandelic or benzoic acid in, 8B58

from titanium, uranium and thorium, by extraction chromatography, 10B71

1,1,1-trifluoro-5,5-dimethylhexane-2,4-dione in, 2B36

solvent extraction of, review, 5B161

Zirconium-95, sepn. of, from fission products, by sorption on tantalum phosphate, 1B61

Zirconium, bis-(η^5 -1,2,3,4,5-pentamethylcyclopentadienyl)-, dichloride, sepn. of, by h.p.l.c., 5C52

Zirconium alloys, analysis of, by X-ray spectrometry, 11B11

detmn. of hafnium in, by isotope dilution - n.a.a., 6B107

detmn. of oxygen profile in, by Auger micro-probe and electron-probe micro-analysis, 8B76

Zirconium alloys—continued

detmn. of uranium in, by cation exchange - spectrophotometry, 9B101

Zirconium bronze, detmn. of zirconium in, by spectrophotometry, 7B83

Zirconium chloride oxide, detmn. of, in water or soil repellents, by complexometry - absorptiometry, 2C65

Zirconium dioxide, detmn. of, in ores and concentrates, by XRF, 11B8

detmn. of dysprosium and samarium in materials based on, by spectrophotometry, 6B85

Zirconium niobide, detmn. of fluorine in near-surface region of, by proton-induced resonance reaction, 12B130

Zirconium oxide, detmn. of yttrium in, spectrographic, 11B84

Zircon sand, analysis of, Japanese standard methods for, 12B84

ZK 36 374, detmn. of, in plasma, by r.i.a., 8D73

Zomepirac, detection of, in urine, 10D89

detmn. of, in blood and urine, by g.l.c., t.l.c. and h.p.l.c., 3D58

in blood plasma and milk, by g.l.c., 4D96

in plasma, by g.l.c., 6D82

in urine, by h.p.l.c., 2D74

Zomepirac sodium, detmn. of, in tablets, differential pulse polarographic, 3E31

Author Index

- Aakvaag, A., 7D149
Aamliid, K. H., 8D108
Aarbakke, J., 5D66
Aarik, J., 11B166
Aarnio, P. A., 12A13
Aaron, J.-J., 2E45
Abadie, F., 2D57, 9D78
Abakumov, V. P., 11J139
Abakumov, V. Ya., 10C3
Abanina, E. N., 6B132
Abbatechio, P., 3H77
Abbott, D. J., 3I68
Abbott, F. S., 7D59, 11D68
Abdalla, M. A., 2C28, 6E26
Abd El Aziz, L., 8E81
Abdel Fattah, J., 5E50
Abdel-Ghani, N. T., 11B91
Abdel Ghany, M., 8D237
Abdel-Halim, A. S., 9B85
Abdel-Khalek, M. M., 4E26, 11E3, 12E25
Abdel-Moety, E. M., 3E43
Abdel-Mottaleb, M. S. A., 10J126
Abdel-Rahim, F., 10J126
Abdel-Rahman, A.-H. Y., 8F66
Abdel-Rehim, A. G., 10C38
Abdel-Rohman, A. I., 12J174
Abdel-Salam, N. A., 3C59
Abdennabi, A. M. S., 4J172, 4J173, 5B207, 6A7
Abdulaev, A. A., 5H47
Abdullah, M., 11D12
Abdullin, I. F., 3C22
Abe, H., 7E43, 9A21
Abe, I., 1D138, 3D139
Abe, K., 8D224, 10F51, 11D223
Abe, M., 6J51
Abe, O., 3D266
Abe, S., 1B12, 10I6
Abeed, F. A., 2C38, 4C26
Abel, P., 10D120
Abeling, N. G., 10D156
Abeliovich, A., 4J167
Abell, C. W., 10D169
Abendroth, J. A., 3F14
Aberg, K., 3D36
Abernethy, D. R., 1D52, 2D63, 3D68, 6D94, 12D80, 12D87
Abernethy, M. H., 2D3, 9D260
Abeydeera, W. P. P., 4F17
Abibullaev, N., 5B206
Abisch, E., 4D133
Abkin, A. D., 1C36
Ablett, P. J., 1D213
Abo-Raya, S. H., 4F45
Abou-Donia, M. B., 8D92
Abou El-Nour, F., 5B51
Aboul-Enein, H. Y., 2E34, 6E49, 7D79, 7E45, 11E23
Aboutabl, E. A., 3E8
Abou-Taleb, S. A., 4C4
Abraham, M., 7D178
Abrahamsson, K., 6H85
Abramov, V. V., 1J10
Abramson, R. K., 7D69
Abrudan, I., 9J39
Abshagen, J., 5H4
Abu-Elgeit, M. A., 4C58
Abu-Zuhri, A. Z., 9B74, 10B64
Acale, J., 3J47
Achber, C., 1D61
Acheampong, A. A., 7D59, 11D68
Achenbach, C., 3D14
Achermann, H. R., 12D1
Achilli, G., 6D205
Acker, L., 11F19
Ackerman, B. H., 10D73
Ackerman, S., 12F14
Ackerman, S. B., 6D12
Ackers, I. M., 10D69
Ackman, R. G., 3D112
Acunzo, S., 11D119
Adachi, A., 3H67
Adachi, J., 6D200
Adachi, K., 5D157, 7F52
Adachi, M., 7D74
Adachi, S., 6D269, 12D195
Adachi, T., 5D251, 8D41, 9B101
Adam, A., 11J34
Adam, A. M., 12D97
Adami, S., 12D220
Adamic, M. L., 11C13
Adamovics, J., 7J18
Adams, F., 6B15, 7H7, 12H65, 12J121
Adams, F. C., 2B89, 2H65, 7B141, 10H5
Adams, G. E., 6J107
Adams, J. D., 8D157
Adams, M. J., 4G2
Adams, P. C., 12D91
Adams, V. D., 3H76
Adams, W. M., 4E40
Adan, N., 5C97
Addar, F., 10J107
Adelolu, S. B., 6D48
Adesina, S. K., 6E23
Adewuyi, V., 4G15
Adin, N. E., 9H25
Adlard, E. R., 3H75
Adlard, M. W., 7E11
Adlercreutz, H., 1D3, 9D140
Adlof, R. O., 2F43
Admasu, A., 9G1
Afanas'eva, L. D., 3B40
Afghan, B. K., 12H91
Afonso Perera, A. M., 10B21, 10B32, 10B44
Agapova, L. V., 11B117
Agapova, N., 10E34
Agapova, T. E., 5B48
Agar, N. S., 4D20
Agarwal, D. C., 4B23
Agarwal, D. D., 7E40
Agarwal, S., 12J157
Agasyan, P. K., 3B100, 4B128, 4B166, 9D177
Agatova, A. I., 8H81
Agbo-Hazoume, P., 8J25
Agee, D. T., 8E64
Ageev, A. N., 4C35
Ager, R. P., 2D154
Agergaard, N., 11D234
Aggarwal, M., 1D34, 10B168
Aggett, J., 2J73, 6H66
Agnessens, R., 11G39
Agnese, S. T., 10D7
Agostiano, A., 8H4
Agranoff, B. W., 3J49
Agrawal, A. K., 11D233
Agrawal, O. P., 9B73, 10B39
Agrawal, S., 1E37, 6J50, 8B110, 8B114, 10J49
Agrawal, V. P., 1F21, 11D139
Agrawal, Y. K., 2B4, 3B18, 7B82, 8B39, 10B49, 11E46
Agterdenbos, J., 8J39
Agudelo, A., 3B24
Aguilar, M. I., 11D69
Aguilar Vilas, M. V., 12F30
Aguirre, R., 1D199
Aguzzi, F., 6D232
Aharanson, N., 3G19
Aherne, G. W., 12H76
Ahlfquist, D., 7D211
Ahmad, A., 11B112
Ahmad, S., 5F43
Ahmad, S. N., 4D92
Ahmed, B. M., 8E33
Ahmed, F. A., 4F45
Ahmed, M., 9B164
Ahmed, M. S., 10E16
Ahmed, S. I., 4D279
Ahmed, S. M., 1B135, 7B132, 9C65, 12B38
Ahmed, S. R., 3H69
Ahmed, Z. A., 5C51
Ahnoff, M., 6J92
Ahokas, H., 1G3
Ahonen, I., 12C17
Ahr, G., 7J43
Ahuja, B. S., 11D232
Aiach, M., 3D37
Aibazov, B. V., 6J86
Aicken, J. C., 4F74
Aieta, E. M., 7H53
Aikawa, H., 11D211
Aimi, N., 7E4
Ainardi, V., 4A5
Airas, R. K., 5D229
Airaud, C. B., 4F7, 5E38
Airoldi, L., 4D138, 12H90
Aitken, Y., 4H29
Aitta, E., 9B144
Aityurina, T. G., 7B26
Aitzetmueller, K., 10F22
Aizawa, M., 5D202, 8D200
Aizawa, Y., 4D208, 6D169, 8D119
Ajayi, S. O., 8C52
Akabirov, B., 5B206
Akada, H., 2H12
Akaiwa, H., 2J3
Akama, Y., 9B148
Akanni, M. S., 5B277, 8B91
Akanuma, K., 10D115
Akatsu, J., 11B64
Akatsuka, K., 4B168
Akaza, I., 5B147
Akazawa, T., 8B96
Akhurin, F. G., 10H20
Akerblom, M., 3G16
Akerlof, E., 7D145
Akhmedli, M. K., 9B62
Akhmetzyanova, I. R., 10B90
Aksakhalyan, A. D., 10B7
Akhter, S., 11D12
Akihama, S., 8D229
Akimov, V. K., 3B41, 8B32
Akintonwa, A., 3D70
Akitt, J. W., 5J139B
Akiyama, E., 6H33
Akiyama, H., 2D234, 6D130
Akiyama, K., 11E11, 12H96
Akiyama, S., 5B32, 5D134, 12C20
Akiyama, T., 2D34
Akiyama, Y., 4E21
Akopov, G. A., 4B92
Akopyan, O. A., 10E33
Akse, J. R., 1J76
Akselsson, K. R., 10H8
Aksnova, L. N., 7B149
Aksnes, D. W., 12C42
Al-Abachi, M. Q., 8E58
Alais, C., 6G20
Alam, A. S., 5E57
Al-Ansari, A. A. K., 4D196, 5D155
Al-Ansari, A. K., 1D147
Alaupovic, P., 12D197
Alawi, M. A., 12H64
Al-Awqati, M. A., 1D147
Alba, D., 6J46
Al-Badr, A. A., 4E59
Albaiges, J., 3C43, 3H1, 6H80
Albanbauer, J., 7C104
Albani, F., 1D99
Al-Bazi, S. J., 9B163, 9B171
Albers, J. J., 8D210
Albers, R. W., 10D193
Albert, K., 8E63
Albert, P. M., 7D242
Albert, R. H., 10E4, 12F8
Alberti, K. G. M. M., 8D4
Alberti, M. B., 11J112
Albertini, A., 7D42, 9D214
Albery, W. J., 11D191, 11D192
Albi, M. A., 6F78
Albrecht, P., 11B156
Albright, F. R., 4B196
Albro, P. W., 5C41, 10D124, 11C80, 12J122
Albutt, E. C., 9D229
Alcock, N. J., 8J33
Alden, M., 3H11, 5C96, 11B69
Alder, B., 12D49
Alder, J. F., 4J162, 7D31
Alderliesten, M., 12J176
Alderman, M. J., 12D225
Alderweireldt, F., 7C94
Alderweireldt, F. C., 12D164
Aldokhin, N. A., 6H96
Aldoshina, Yu. T., 8B120
Aldred, J. P., 9E25
Aldridge, M., 3E37
Al-Dujaili, E. A. S., 3D67
Alexio, L. M., 9F49, 10A9
Aleksperov, R. A., 8B29, 12B41
Aleksandrov, M. L., 6J45, 11J29
Aleksandrov, S., 4H19
Aleksandrov, V. V., 4J105
Aleksandrov, Yu. I., 4A31
Aleksandrova, N. N., 5B101
Aleksenko, L. Kh., 12H87
Alekscev, V. N., 6J157
Alekscev, V. V., 8E89
Aleksceva, I. I., 10B169
Aleksceva, N. A., 11B60
Aleksenko, A. N., 6B52
Aleksiev, A., 1B115, 1D142
Aleksyuk, N. P., 5H84, 11B10
Alem, Y., 1B90
Alemasova, A. S., 10B37
Alencar, J. W., 6F82
Alenichev, V. S., 7B139
Aleo, M. D., 11F22
Alert, D., 8J49
Aleskovskaya, V. N., 6B148
Aleskovskii, V. V., 6B148
Alessi, P., 6C56
Alevesque, J., 6B161
Alexander, A. J., 2D48
Alexander, N., 10D155
Alexander, R., 3C44
Alexander, T. K., 8J118
Alfassi, Z. B., 4J159, 8B45, 10D44, 11B110
Alferova, O. M., 11B21
Alfonso, F. C., 7F91
Alfthan, H., 3D197
Algeri, S., 6D205
Al-Ghabsha, T. S., 8E58
Al-Hajjaji, M. A., 4E32, 5G11, 9D178
Alhenc-Gelas, F., 3D268
Al-Hitti, I. K., 4J166, 6B122
Ali, H. M., 9D92
Ali, M. A., 2C28
Ali, S. S., 10H10
Aliakbar, A., 10F1
Alian, A., 10H10
Aliau, S., 4D176
Alibrando, S. L., 9H76
Aliev, A. M., 4E15, 4E60
Alieva, R. G., 11D67
Alimonti, A., 5B237, 8B83, 8B118
Aliu, Y. O., 2D104
Ali-Zade, T. D., 12B98
Al-Kaysi, H. N., 8D75
Alkemade, C. T. J., 6J127
Alken, R. G., 11D67
Al-Kinani, A. T., 9D15, 10D18
Alksnis, O. N., 8J52
Allain, P., 4D111
Alakhverdova, E. G., 11B113
Albee, W. E., 12D239
Allegrini, M., 5D35

- Allen, A. C., 10E22, 12E8
 Allen, C., 9H38
 Allen, D. T., 7C64
 Allen, H. W., 11D82
 Allen, J., 9D80
 Allen, J. L., 10H86
 Allen, J. P., 4D197
 Allen, L. C., 10D230
 Allen, L. H., 4C83
 Allen, M., 12H98
 Allen, P. S., 5D2
 Allen, R. C., 2J33
 Allen, R. J., 6J147, 7F11, 9E28
 Allen, W. L., 10D144
 Allender, W. J., 3D54
 Allenmark, S., 1D139, 5C36, 9E55, 10D171
 Allerheiligen, S. R. B., 2D96
 Allerton, S. E., 3D209
 Alley, M. C., 6D264
 Alliger, C. L., 5E46
 Alligood, J. P., 6J52
 Allina, Z., 10C31
 Allison, J., 7J70, 10B176, 12J123
 Allison, L. A., 4D227
 Alloggio, V., 10F65
 Alluyn, F., 7B123
 Almela, L., 9D224
 Almersjo, O., 4D131
 Al-Meshal, I. A., 3E8
 Al-Nuri, I. J., 11D167
 Alofs, D. J., 11A31
 Al-Oneizi, O. S. M., 1D147
 Alonso, A., 8B71
 Alonso, J., 3C39
 Alonso, R., 6D292
 Alonso Fernandez, J. R., 10D146
 Alonso Mateos, A., 5B176, 12B168
 Alonso Nunez, M. C., 4G22
 Alperin, D. M., 2D128, 12B17
 Alpert, A. J., 3D174, 3D220
 Al-Saeed, A. M., 2C46
 Al-Sammerrai, D., 10C59
 Alsberg, T., 4H44
 Alsen, C., 1H38
 Al-Shawi, A. L., 3D203, 8D203
 Alsina, M. J., 8J10
 Alston, W. C., 8D136
 Altenhofen, U., 6C52
 Alter, G., 12B60
 Althaus, A., 6H57
 Althaus, H., 10H82
 Althaus, J. R., 11D62
 Altmann, H., 11E53
 Al'tshuler, O. S., 5C109
 Altyntsev, A. T., 9J70
 Alvarez Bartolome, M. L., 3A10
 Alvarez Herrero, C., 8B83, 11J91
 Alvarez Jimenez, M. D., 5B154, 5B246, 5D20
 Alvaro, D., 6D180
 Alves, P. B., 6F82
 Alvin, J. F., 8C60
 Alvoet, C., 5D164
 Aly, H. F., 4B21, 10B19, 11B147
 Alykov, N. M., 8E37, 12D69
 Alykova, T. V., 8E37
 Alymova, A. T., 5H81
 Al-Zamil, I. Z., 4E32, 5G11, 12B131
 Amado, R., 9F8
 Amagaya, S., 3E14
 Amakara, E., 4F36
 Amankwa, L., 3E31, 4E50, 7E21
 Amann, A. H., 5E42
 Amano, R., 10D45
 Amateis, P. G., 3C51, 11C50
 Amato, A., 4E9, 5E14, 10E35
 Amato, M., 8D27
 Ambardekar, A. B., 12B67
 Ambe, S., 10B16
 Ambike, V. R., 11E19
 Ambler, L., 11D230
 Amelin, V. G., 5B138, 6B121
 Amelotti, G., 5F34, 6F79
 Amemura, A., 3D127
 Ameno, S., 4D274
 Amer, M. M., 1E30
 Amer, T. M., 6E32
 American Iron and Steel Institute
 Committee on Industrial
 Hygiene, Analytical
 Subcommittee, 2H16
 Amerik, V. V., 7C93
 Ames, B. N., 1D10, 5D133
 Ames, L., 6J114
 Amin, D., 2C38, 4C26, 4E56, 6C22, 11C18
 Amin, M., 4B173
 Amirov, K. M., 5C12
 Ammann, D., 1D14, 2D13, 5J169, 10D28, 10J132, 12J154
 Ammann, K., 12J49
 Ammeter, J. H., 11G21
 Amsel, G., 12B104, 12J140, 12J144, 12J145
 Amshey, J. W., 11D3
 An, R., 12D39
 Analytical Quality Control
 (Harmonised Monitoring)
 Committee, 5H41
 Anan'eva, L. V., 12H49
 Anan'evskii, V. A., 5B247
 Anan'in, V. N., 12B183
 Anatienko, N. L., 4B179
 Anderegg, R. J., 2J91, 6D227
 Andermann, G., 8E45, 11E35, 11E50, 12J80
 Anders, N. A., 9J74
 Andersen, I., 5D117, 10J8
 Andersen, N. H., 5J81
 Andersen, O. M., 9D221
 Anderson, A., 6J1
 Anderson, B. L., 4D247
 Anderson, B. M., 5D232
 Anderson, C. D., 5D232
 Anderson, D., 10D142
 Anderson, D. C., 9D144
 Anderson, F. S., 4D163
 Anderson, G., 1D201
 Anderson, G. B., 11C19
 Anderson, G. M., 1D93, 6D163
 Anderson, H. A., 2H23
 Anderson, J. E., 3J116, 5J183
 Anderson, J. M., 7J42
 Anderson, M., 8F38
 Anderson, M. D., 5B105
 Anderson, M. G., 2D236
 Anderson, N. L., 6D5
 Anderson, T. A., 12J97
 Anderson, T. R., 11F5
 Anderssons, A., 5C28
 Andersson, K., 2H30, 4H37, 5H32, 8H31, 12H30
 Andersson, S. H. G., 6D187, 12D136
 Andersson, T., 10J48
 Andeweg, A. H., 6J163, 12J141
 Ando, A., 10D45, 12D102
 Ando, H., 8D58
 Ando, K., 1F13
 Ando, M., 10H60
 Ando, S., 4D170, 5D130
 Ando, T., 3H42, 5D134, 8J44
 Andondonskaja-Renz, B., 3D137
 Andrasko, J., 8C55, 12C75
 Andrawes, F. F., 5B29, 9H16
 Andre, D., 6E31
 Andrea, G. D., 11J37
 Andreae, M. O., 8H60, 12H86
 Andreetti, G. D., 5J58
 Andreev, L. V., 4F78, 6J56, 7D135
 Andreev, P. A., 1J10
 Andreev, V. Yu., 11J132
 Andreeva, I. Yu., 6H44
 Andreeva, L. P., 6B148
 Andreolini, F., 7D143, 12D141
 Andresen, I., 6H91
 Andrew, C. E., 8D205
 Andrews, A. H., 9J20, 11E14
 Andrews, A. T., 6D308
 Andrews, K. S., 10A17
 Andrews, M., 12J46
 Andrews, P. J., 3D134
 Andrews, R. P., 4D212
 Andrews, S., 1D91
 Andrianova, G. N., 11B11
 Andronati, S. A., 7H67, 10H79
 Andronidis, T., 8B9, 11J145
 Andronikashvili, T. G., 10J69, 11C7, 12J69
 Andros, T. G., 6C45
 Androsova, N. V., 3B107
 Andruzzi, R., 2H34, 3F25
 Andrysiak, A., 3C7, 10C11
 Ang, K. P., 10C45
 Angel, J. M., 10D13
 Angelescu, A., 12C52
 Angeletti, G., 9A6B
 Angelico, M., 6D180
 Angelov, O., 9B6
 Angelova, M., 1D142
 Angelova, N., 11E25
 Angerer, J., 2D23, 4D17
 Anghel, D. F., 8C70
 Anhalt, J. P., 4D83, 5D54
 Anido, G., 10D209
 Anikanov, A. M., 9H65, 12H49
 Anisimov, R. I., 11H53
 Anisimova, L. A., 4C9
 Anisimova, L. S., 7C29
 Anisimova, T. M., 3B10
 Anisovich, K. V., 7B18, 8B7
 Ankawi, A. A., 1E35
 Anker, P., 1D14, 2D13, 10D28
 Annapol'skii, V. D., 11J02
 Annegarn, H. J., 12B157, 12J141
 Annesley, T., 8D220
 Annison, G., 1D90
 Anselmetti, M. P., 4F56
 Antarkar, D. S., 1E14
 Anthemidis, A. N., 10B165
 Anthony, G., 8E80
 Anthony, G. M., 4C95
 Anthony, L. J., 4B142
 Anthony, M. T., 1J65
 Antila, V., 6F48
 Antipenko, L. L., 4B158
 Antipin, L. M., 3B65, 8C3
 Antipova, G. Ya., 7B160, 9B61
 Antokol'skaya, I. L., 11B150
 Antonescu, L., 8C59
 Antonijevic, M. M., 10A10
 Antonijevic, V. V., 5C35
 Antonov, A. V., 11B117
 Antonov, P. P., 9J133, 11J131
 Antonova, A. V., 6C8
 Antonovich, V. P., 8B88, 10B127, 11B34
 Antonovskii, V. L., 5C43, 10C7
 Anttila, A., 5B10
 Antuf'ev, Yu. P., 9B135
 Anufriev, G. S., 1B5
 Anukarahanonta, T., 2D122
 Anwar, S., 5D182
 Anzion, R. B. M., 12D93
 Anzur, A., 9E4
 Aoki, K., 5C7, 5D71, 11H35
 Aoki, M., 2D215
 Aoki, T., 7H42
 Aoki, Y., 8D177
 Aono, H., 7F54
 Aouidet, A., 6D183
 Aoyagi, S., 2D207
 Aoyama, H., 12C46
 Aoyama, M., 5H60, 10H62
 Aoyama, T., 3H10, 3H22, 3H23, 7H15, 10H30
 Aparicio-Razo, M., 8J128
 Apel, C. T., 6B35
 Apel, M., 12H5
 Appfel, J. A., 6C39, 8J29
 Appaiah, K. M., 8F46, 10F50
 Appa Rao, N. V. R., 4C59
 Appel, B. R., 4H21, 7H17, 9H19
 Appelmek, B. J., 1D202
 Appler, B., 4C101
 Appleton, J. M. H., 7J83
 Appolonia, C., 9J9
 Apps, P. J., 6J66, 11J54, 12J58
 Apsitis, A., 7B19
 Ara, K., 9D121
 Arafat, E. S., 10D63
 Arago, A. M., 11D203
 Arai, A., 9C10
 Arai, H., 3H40
 Arai, T., 12D64
 Arakawa, H., 6D194
 Arakawa, S., 7F5
 Arakawa, Y., 3D81, 4D209, 5C39
 Arakchaa, K. D., 4B116
 Aranovich, G. L., 6A14
 Arany, S., 7G11
 Arapova, T. Ya., 10B129
 Arata, J., 8D174
 Aratskova, A. A., 2E36, 4C35
 Arbin, A., 2D53
 Arbogast, J. K., 3B11
 Arbutova, I. A., 4C27
 Arbuzova, L. A., 1B5
 Archambault, A., 8D131
 Archer, A. W., 3D54
 Archibeque, F. A., 11D19
 Ardalan, B., 2D108, 8D107
 Ardisson, G., 9D14
 Arendt, R. M., 1D52
 Arens, M., 11C56
 Aresse, P., 7D179
 Arshidze, T., 9B142
 Arevadze, N., 12H59
 Argekar, A. P., 11B146
 Argese, E., 3J111
 Argyle, J. C., 10D86
 Arias, J. J., 1B89, 3B32, 10B35
 Ariati, L., 5H67
 Ariel, M., 11D253
 Ariga, T., 7F75
 Arimoto, K., 5D157
 Arinshtein, A. E., 6A14
 Aristov, G. N., 5B52
 Arisue, K., 3D104, 4D90
 Arita, M., 7D132
 Arita, T., 4D80
 Ari-Uluben, A., 10D92
 Arkhipova, L. A., 3B47
 Arlinghaus, A. F., 4D121
 Armanino, C., 9A19
 Armbruster, G., 11F3
 Armstrong, D. W., 8C83
 Armstrong, V. W., 7D19
 Arndt, R., 9H8
 Arneht, W., 5F17
 Arnold, E. C., 4D328
 Arnold, G., 7J69
 Arnold, M., 1B154
 Arnold, M. A., 11J100, 3D105, 5J175, 12J161
 Aronzon, S. S., 5J179
 Arora, H. C., 7B79
 Arosio, P., 9D214
 Arowolo, T. A., 9D113
 Arpino, P., 4C51, 9C41
 Arranz, J. F., 10B3
 Arranz Pena, M. I., 8D60
 Arrebola Ramirez, A., 5B25
 Arredondo, M. del C., 2E32
 Arrendale, R. F., 1D76, 2J50, 6J101
 Arriaga, C., 2D20
 Arribas Jimeno, S., 3A10
 Arrigoni, E., 9F8
 Arsov, A., 3C62
 Arstamyan, Zh. M., 11B75
 Artem'eva, E. E., 9B105
 Artemi, F., 4D301
 Artemova, G. N., 11D114
 Arthur, P. G., 8D128
 Artigas, F., 1D132, 8D154, 11D156, 11D165
 Artiss, J. D., 2D147, 12D112, 12D133
 Artist, M., 10B28
 Artoni, G., 10D192, 10J56
 Arts, J. W. M., 8D31
 Aruga, H., 5J170, 6J49
 Aruga, T., 2H31, 11B87
 Arunachalam, J., 10J112
 Aruscavage, P. J., 4B144
 Arutyunov, O. S., 4H1

- Arutyunyan, S. I., 8D94
 Arva, Mrs. P., 10J149
 Arvidsson, T., 7D65
 Arzamastsev, A. P., 1J41, 4E54, 6E34, 7D140, 9D39, 11E12
 Arzberger, E., 10F22
 Asada, R., 4J42
 Asahi, T., 10D237
 Asakawa, N., 1D159, 12E30
 Asake, Y., 7F19
 Asali, L. A., 7D61
 Asano, H., 10F2
 Asano, M., 4D36, 6D102
 Asano, Y., 6D72
 Asanoma, M., 7F20
 Asaoka, K., 11D244
 Asatiani, N. G., 9B123
 Ascalone, V., 2D87
 Asea, P. E. A., 10B128
 Aserin, A., 11C55
 Asgedom, G., 1B90
 Ash, K. O., 1D156, 10D185, 10D214
 Asher, C. J., 10D48
 Asher, S. A., 10J108, 12C35
 Asher, W. E., 1J47
 Ashihara, Y., 7D253
 Ashkinazi, V. E., 9B94
 Ashley, D. V., 4D216
 Ashley, L., 3J115
 Ashoor, S. H., 10F49, 12F3
 Ashton, G. C., 8F60
 Ashwood, E. R., 6D27, 12D43
 Ashworth, C. M., 6C53
 Ashworth, R. B., 2D102
 Askarov, O. I., 9B32
 Askerov, D. N., 9B70, 11B113
 Asmardi, G., 6D84
 Asmus, P. A., 2E20
 Asp, E. H., 6F31
 Asper, R., 1D14, 2D13
 Asplund, L., 11H69
 Assaraf, J., 7D195
 Assafa, M., 5B179
 Assenza, S. P., 6D278, 7D214, 7D226, 12D212
 Asshauer, J., 2G23
 Assink, H. A., 6D257
 Assmann, G., 1D181, 5D138, 7D136, 9D218, 10D143, 12D129, 12D130
 Astafurov, V. I., 11B61
 Aston, W. J., 12J164
 Asuero, A. G., 3H36
 Aswad, D. W., 10D170
 Aszalos, A., 6E30
 Atamna, I., 8D159
 Atanasova, D., 12C37
 Atayan, A. M., 5B19
 Athavale, A. V., 1E14
 Atkin, B. P., 9B82
 Atkinson, M. J., 5D195
 Atkinson, T., 4D2, 5D61
 Atnashev, Yu. B., 10J102
 Atomasova, T. I., 11B107
 Atsuya, I., 4J110
 Attili, A. F., 6D180
 Attiyat, A. S., 10D30, 12J12
 Attock, B., 6D295
 Attygalle, A. B., 1G21
 Aubert, C., 12D96
 Aubort, J.-D., 7C82
 Aucker, J., 2D50
 Auclair, C., 8D230
 Audhya, T., 12D175
 Aue, W. A., 4J78
 Auer, M., 5E62, 6H84
 Aufreiter, S., 6H43
 Auger, J.-L., 1A7
 Aughey, E., 6D35
 Augis, J. A., 5B287
 Augstein, E., 8D11
 August, E. M., 2G21, 12G6
 August, P., 9D144
 Ault, J. A., 12F17
 Aussedat, J., 3D232
 Austin, G. E., 12D198
 Austin, T., 2D196
 Auterhoff, H., 2E53
 Autian, J., 11D242
 Autio, S., 5D175
 Avaldi, L., 12A6
 Avdeeva, E. N., 4J165
 Aveland, M. I., 3D115
 Averill, W. F., 6F7
 Averkieva, O. I., 8G13
 Avery, M. J., 7C44
 Avigad, G., 6D153
 Avila, J., 10D206
 Avila Roson, J. C., 5B13
 Aviram, M., 2D209
 Avraham, Y., 5E42
 Avram, M. J., 8D59, 11D83
 Avraman, F. V., 10H1
 Avrameas, S., 5D10
 Avramovic, B. D., 5C23
 Aw, T. C., 3D237
 Awad, Y. L., 8D19
 Awang, D. V. C., 9E19
 Awasthi, K. K., 2D140
 Awata, N., 1D70
 Axelsson, J. E., 4D119
 Axelson, M., 4D181
 Axio-Fredriksson, U.-B., 3D202
 Ayad, M., 8E81
 Ayad, M. M., 8E16, 10E12
 Ayck, G. A., 11B14
 Ayers, C. R., 1D102, 7D128
 Ayers, G. P., 9B1
 Ayscough, P. B., 11J117B
 Ayyangar, N. R., 3C34
 Azarova, V. N., 4B82
 Azarraga, L. V., 6J59
 Azimov, Ya. A., 6B116
 Aziz, A., 7D186
 Aziz-Alrahman, A. M., 4E32, 5G11
 Aznarez Alduan, J., 5A10, 5B112, 5B189, 8B44, 8B84
 Azumi, T., 11H36
 Baadenhuysen, H., 3D20, 6D182
 Baars, A. J., 2D187
 Baartscheer, T., 1D205
 Baaske, D. M., 5E42, 5E57
 Baba, H., 11B19
 Baba, N., 12B24
 Baba, S., 5D161, 6E50, 8D70, 12D157
 Baba, T., 4F6, 8F22
 Baba, Y., 4B90, 6B91
 Babaev, A. K., 5B41
 Babaev, G. A., 7B24
 Babaev, V. A., 8B29
 Babanov, N. I., 8J64
 Baba-Zade, A. M., 7B24
 Babe, M., 4D291
 Babenko, A. S., 6B85
 Baber, J. G., 6E26
 Babhair, S. A., 7D79
 Babich, V. V., 11C11
 Babiker, M. O., 6H71
 Babkin, A. G., 5B183, 12B93
 Babkin, V. A., 5D121, 5D123, 6D154
 Bablok, W., 6A10
 Babor, K., 4F20
 Baccan, N., 4B69, 7B81, 12B124
 Bach, H., 7B152, 8B135, 8B136
 Bach, P. R., 1D59, 6D66, 9D3
 Bach, W., 3D15
 Bachand, R. T., jun., 5D72
 Bachas, L. G., 5J174
 Bachmann, H. J., 1B107
 Bachmann, K., 4D91
 Bacigalupo, M. A., 5D154
 Back, D. J., 10D144
 Back, D. M., 10C18
 Back, P. S., 2C78
 Backhaus, G., 4J127
 Backhaus, J., 12D92
 Backhaus, R., 9J46
 Backstroem, K., 10B11
 Bacquet, C., 9D59
 Bacs, G., 8E40
 Bacsó, M., 6D271
 Badaisha, K. K., 4C49
 Badawy, S. S., 8B87
 Badcock, N. R., 11D101
 Badecka-Jedrzejewska, J., 10B139
 Badiani, M., 4D301
 Badilescu, S., 3C71
 Badimon, J.-J., 6D264, 6D265
 Badings, H. T., 6D171
 Badoz, J., 9A7B
 Badretinova, G. Z., 3C22
 Baechmann, K., 1B58, 6D47, 12H28
 Baecklund, P., 5J185, 10J25, 12A17
 Baenziger, J. U., 6D148
 Baenziger, N. L., 2D142
 Baer, D. M., 4D12
 Baer, R. J., 2F28
 Baerheim Svendsen, A., 9E2
 Baeyens, W., 5E50
 Bag, S. P., 3B92, 4B167, 4B186, 4B188, 7B91
 Bagaev, N. V., 11B117
 Bagashvili, D., 9B142
 Bagby, B. S., 4D97
 Bagdasarov, K. N., 9B168
 Bagdasarova, I. Ya., 6E46
 Bagdasaryan, P. G., 5C110
 Bagdasaryan, S. D., 11B15
 Baggen, W., 7G15
 Baggett, K. L., 10F23
 Baghdadi, A., 6J148
 Bahadir, M., 5D112
 Bahima, J., 7D7
 Bahl, O. P., 5D209
 Bahlmann, J., 5D128
 Bahr, U., 11D10
 Bahri, D., 1F20
 Bahrii, O. K., 6E65
 Bai, J., 5B89, 12B115
 Baig, M. W. A., 10B120
 Baik, S. I., 10E33
 Baikov, A. A., 6D309
 Bailey, B. A., 7D157, 12D146
 Bailey, C. J., 12F8
 Bailey, D. N., 1D47, 7D43, 10D79, 12D58
 Bailey, E., 2F46
 Bailey, G. S., 5D124
 Bailey, J. E., jun., 10E44, 12E64
 Bailey, M. P., 8D199
 Bailey, N. F., 3J6
 Bailey, P. A., 7D206
 Bailey, P. M., 1D170
 Baim, M. A., 4J77, 6G28
 Baiocchi, C., 2H31, 5B23, 9C17, 11B87
 Bairamashvili, I. A., 11J72
 Baiulescu, G. E., 1B78
 Baj, A., 6E19
 Bajema, B. L., 2J7, 5A32
 Bajo, S., 5B137
 Bakalov, V., 6E25
 Bakar, S. K., 4D100, 4D101
 Baker, C. J., 8D117
 Baker, G. G., 9C63
 Baker, G. J., 9D134
 Baker, G. K., 7C97
 Baker, J. F., 4D117
 Baker, K. S., 10H81
 Baker, L. H., 8D72
 Baker, P. B., 2E2, 6E9
 Baker, P. G., 7G32, 7G33
 Baker, P. R., 4D203
 Baker, R. R., 8D12, 11D115
 Bakhmut, N. G., 10E33
 Bakhrieva, F. B., 5B50
 Bakiev, S. A., 9B32
 Bakker, H., 4G34
 Bako, P., 5C58
 Bakonyi, G., 12B106
 Bakos, L., 1B85, 3B95, 5B7
 Bakowski, A., 11B119
 Bakowski, W., 11B119
 Bakris, G., 1D135
 Bal, T. S., 6E10
 Bala, C., 1B75
 Balabane, M., 5C89, 10F18
 Balabanov, Yu. I., 5B183
 Balachander, N., 2B47, 4B95
 Balaes, A. M. E., 5J72, 6B99, 7B35
 Balakrishnan, K. V., 5F42, 11C59
 Balan, V., 4B83
 Balasanmugam, K., 4J151
 Balasiewicz, W., 5C22
 Balasso, A., 11G7, 11G8
 Balasubramanian, K. A., 11D240
 Balasubramanian, N., 7B96
 Balaz, V., 10D127
 Balcazar-Garcia, M., 5J145
 Baldar, N. A., 4D212
 Baldi, C., 12D46
 Baldo, P., 5A29
 Baldwin, D., 10D54
 Baldwin, E. T., 10D223
 Baldwin, R. P., 4B119, 5E53, 7J137, 8D84, 11D84
 Baldwin, R. S., 5D104
 Bales, J. R., 10D3
 Balfanz, E., 2C52
 Balhorn, R., 11D200
 Balice, V., 3H77
 Balke, J., 11D15
 Balkon, J., 5D64, 5D86
 Bal'kov, B. G., 7G18
 Ball, D. M., 4J30, 5D177
 Ball, J., 9D27
 Ballantyne, F. C., 12D196
 Ballard, K. D., 2A4, 6D106
 Ballas, S. K., 4D304
 Ballatore, A. M., 5D144
 Ballou, C. E., 4D152
 Ballschmiter, K., 1B11, 4J76, 7C2, 8H2, 9J61
 Bally, M. B., 3D245
 Bally, R. W., 10J111, 12J65
 Balog, I. S., 8B72, 9B95
 Balogh, L., 10C17
 Baloui, L. M., 12C52
 Baltassat, P., 11D220
 Baltes, W., 5F6, 7F18, 8D125, 8F21, 10F44
 Balykin, V. I., 11J101
 Balzan, S., 10E14
 Baman, B. D., 5E59
 Bambynek, W., 5J142
 Bamforth, C. W., 5F46, 5F47, 7F86
 Bamiro, F. O., 6J139
 Banakh, O. S., 2J9, 8H22
 Banasik, O. J., 2G4
 Bancher, E., 2E8
 Bancroft, G. M., 8B53
 Bancroft, K. C., 6H92
 Band, P., 2D59, 6D124
 Bandy, Z. L., 6D150
 Bandyopadhyay, S., 6J153
 Bandyopadhyay, T. S., 6F16, 6F80, 9F11, 9F55
 Banerjee, B. D., 9D106
 Banerjee, P., 2J69
 Banerjee, P. K., 4D332
 Banerjee, S. K., 11E46
 Banfield, C., 3D74
 Banica, F. G., 4B117
 Bankert, R. B., 7D10
 Bankmann, E., 11H2
 Bannaya, V. F., 1B72
 Bannister, S. J., 1D68
 Bannon, P., 10D228
 Banoun, H., 8D230
 Bansal, A., 3J107
 Bansal, R., 8C16
 Bansal, R. K., 2B78, 9B162, 9B169, 9B173, 11B126, 12B164
 Bansho, K., 7H31, 8B12, 8H47, 10B102
 Banskalieva, V., 12F42
 Bansse, W., 2B82
 Bao, H., 9C28
 Bao, S., 11B162
 Bapat, B. V., 8J58
 Bapat, P. M., 9J5

- Bar, A., 10D145
 Bar, R., 5C31
 Barabas, J., 5F30
 Barabe, J., 5D188
 Baraka, A., 12J174
 Barakat, M. F., 1J97
 Barakat, N., 5B51
 Baram, G. I., 11J23, 11J29
 Baramykova, G. I., 9B130
 Baranchikova, N. A., 6E59
 Baranov, A. T., 9B176
 Baranov, V. P., 2E24
 Baranska, H., 5B186
 Barary, M. A. H., 9A34
 Barba, M. F., 5B283
 Barbaresi, G., 6J21, 8A13
 Barbaro, A. M., 12E16
 Barbaro, M., 1B76
 Barbe, F., 11D149
 Barber, M., 10E43
 Barbet, J., 8D40
 Barbi, G. B., 1J105
 Barbier, J., 5B284
 Barbier-Brygoo, H., 3J102
 Barbieri, G., 5F3
 Barbina, T. M., 5B70
 Barbolani, E., 5H70
 Barboriak, J. J., 7D201
 Barbosa, J., 11A13
 Barbour, H. M., 5D61
 Barcelona, M. J., 6H72, 7H57, 10H39, 11H56
 Barchas, J. D., 10D181, 10J116
 Barci-Funel, G., 9D14
 Bard, A. J., 7D120
 Bardalaye, P. C., 10G19, 12G8
 Bardeleiti, G., 12J163
 Barden, A. E., 2D141
 Bardi, G., 7F89
 Bardin, V. V., 4B55
 Barek, J., 4C36, 7A8, 8C75, 11A15
 Barends, D. M., 4D81
 Bargo, E. S., 2E29
 Bariac, T., 6C4
 Barilli, L., 10J150
 Barinov, V. M., 11B65
 Barish, E., 6J147
 Barish, L., 9C76
 Bark, L. S., 1E35, 5B234
 Barkauskas, J., 6B138
 Barkeley, J., 9D22
 Barkenbus, B. D., 3H21
 Barker, N. J., 2H24
 Barlow, J. W., 1D146
 Barna, A., 9J76
 Barna, P., 2A15, 11A23
 Barnabe, R., 10D226
 Barnard, A. J., jun., 4H79
 Barnard, G. J. R., 3D117, 4D182, 4D188, 12D193
 Barnard, H. C., 8D240
 Barnes, C. G., 10J103
 Barnes, C. J., 1D64
 Barnes, L. D., 7D219
 Barnes, P. A., 8J133, 9J142
 Barnes, R. K., 1B104
 Barnes, R. M., 1A6, 1B46, 2D10, 4D22, 5J103, 8B11, 10B91
 Barnes, S., 4D310
 Barnes, W. S., 1F7
 Barnett, D., 6F68
 Barnett, D. B., 10D52
 Barnett, J. L., 5H26
 Barnett, N. W., 9J102
 Barnheim, D., 11C67
 Barni-Comparini, I., 6E6, 11E4
 Barofsky, D. F., 3J90
 Baron, A. R., 4H15
 Baron, P., 2H6
 Barozzi, C., 10J56
 Barr, E. B., 11J5
 Barr, S., 4H33
 Barrado, E., 2B57
 Barragan de la Rosa, F. J., 1B133, 2A2, 5B219, 9B36
 Barragan Ruiz, M. R., 12F12
 Barrandon, J.-N., 9B175
 Barrenstein, A., 10H42
 Barrett, C. S., 11A6B
 Barrett, P., 9B92
 Barrett, T. H., 6J27
 Barrette, M., 6D23
 Barrette, W. C., jun., 12B27
 Barringer, G. E., jun., 11J55
 Barros Leite, C. V., 1J93, 1J94
 Barrow, K. D., 10D152
 Barrow, S. E., 10D132
 Barry, A. R., 3D176
 Barry, C. P., 8F18
 Barry, E. F., 2J49, 11J59
 Barsukova, K. V., 1B57
 Bart, T. Ya., 11J125, 11J132
 Barta, I. C., 12D110
 Bartak, D. E., 11C13
 Bartalits, L., 10D248
 Bartel, J., 6D268
 Bartels, H., 12E4
 Bartha, A., 2C1
 Barthelemy, J. F., 8E45
 Bartkus, P., 4B148
 Bartl, P., 5C74
 Bartley, D. L., 1J7, 11H22
 Barton, E. G., 4D312
 Barton, J., 5C80
 Barton, J. B., 6J172
 Barton, J. M., 9J144
 Barton, L. J., 11D117
 Bartonek, G., 7D34
 Bartosevich, J., 6D120
 Bartosz, G., 12D226
 Bartoli, J., 3C39, 4B170
 Bartsch, H., 5H98B
 Bartsch, R. A., 9B14
 Bartusz, D. B., 5B208
 Bartuzzi, G., 8D162
 Baruffaldi, R., 9F37
 Baruzzi, A., 1D99
 Barylo, L., 2F20, 2G25
 Baryshev, V. B., 11J79
 Barz, W., 5G6
 Basargin, N. N., 9B57
 Basarova, G., 10F60
 Basol, R. C., 4D73, 11D98
 Basharova, L. A., 3D53
 Bashir, W. A., 6B110, 6H65, 8B77, 10B133, 11C18
 Bashirov, E. A., 1B168
 Bashor, M. M., 1D183
 Basilio, A. N., jun., 12H26
 Baskakova, E. E., 7C93
 Baskin, V. N., 10B117
 Basok, S. S., 12D168
 Basov, V. N., 7B140
 Bassanelli, R., 7C32
 Basselier, J.-J., 10C54
 Bassette, R., 4D240
 Bastiaans, G. J., 4J123
 Bastian, E., 8C1
 Bastian, J. W., 9E25
 Bastide, J.-M., 9D8
 Bastin, G. F., 11J83
 Basu, M., 6E33
 Basutcu, M., 9B175
 Bata, A., 4F59, 10F13
 Bateh, R. P., 1D125
 Bateman, R. H., 4J147
 Bates, C. J., 3D243
 Bates, E. H., 5J51
 Bates, R. P., 4F48
 Bates, T. S., 4H72
 Bateson, S. W., 5J192
 Bathala, M. S., 10D103
 Batham, M. G., 6J37
 Batjer, J. D., 6D190
 Batova, V., 7G26
 Batoreu, M. C. C., 7D31
 Batra, P., 6D274
 Batstone, G. F., 1D43, 1D176, 9D41
 Batt, A. M., 7D243
 Batta, A. K., 8D114
 Battaglia, R., 11F30
 Battistoni, C., 5B199
 Battocletti, J. H., 12J114
 Batukova, G. I., 4C40
 Baucke, F. G. K., 12B179
 Baudino, O. M., 11A14
 Baudner, S., 5F23
 Baudys, M., 3D265
 Bauer, C., 12B30, 12B130
 Bauer, D., 9B137
 Bauer, D. R., 7H72
 Bauer, E. A., 8D250
 Bauer, F., 9F25
 Bauer, J., 3E47, 6E41, 9E13
 Bauer, J. E., 11F35
 Bauer, M., 2J81
 Bauer, N. J., 12E66
 Bauer, R., 1E13, 8E26
 Bauer, S., 4A18, 9A20
 Bauer, U., 9H70
 Baum, G., 10D23
 Baumann, E. W., 12B28
 Baumann, H., 10D195
 Baumann, K., 3D270, 3D271
 Baumbach, G., 7H20
 Baumbach, J., 10J77
 Baumgartner, H., 2D165
 Baumhoer, G., 12C25
 Bauza, M. T., 8D68
 Baveja, A. K., 3H13, 4H77, 7H45, 9H22, 10H26, 10H56, 11H43
 Bawdon, R. E., 7D49
 Bax, A., 8A21
 Bayer, E., 5C26, 7A3, 9D226
 Bayer, M. F., 8D204
 Bayle, J. C., 5C89, 10F18
 Bayley, D., 2D133
 Baylis, P. H., 9D193
 Bayliss, M. A., 4J136
 Bayloq, D., 2D115, 8E92
 Bayne, W. F., 9D52, 9D77
 Baynes, J. W., 8B41
 Bayon, A., 11D185
 Bayona, J. M., 3H1, 6H80
 Bayoumi, O. C., 12G15, 12G16
 Bayrakdar, N., 4E8
 Bayse, D. D., 2D118, 8A9, 8D93, 8D101, 8D102, 12D137
 Bazari, W. L., 4D308
 Bazel, Ya. R., 8B72, 9B95
 Bazierashvili, K., 9B99
 Bazilevskaya, T. A., 7B118
 Bazykina, E. N., 7A18
 Bazylak, G., 7C28
 Beasley, V. R., 2D117
 Beatson, R. P., 11C66
 Beaty, M. M., 9B156
 Beauchamp, R., 5J37
 Beaudan, B. J., 5J37
 Beaudonnet, A., 12D194
 Beaulieu, H. J., 6H21
 Beaulieu, M., 2J12
 Beaulieu, P. C., 5D21
 Beaupre, P. W., 1B24, 1B137, 1H27, 4B50, 4B150, 7B138
 Beaven, M. A., 5D173
 Beaver, R. W., 4H43
 Beccaria, A. M., 8H14
 Becchetti, F. D., 6J171
 Bechtel, D. B., 9A3B
 Bechtol, L. D., 12D89
 Bechtold, H., 11D63
 Beck, B., 6D231
 Beck, O., 11D166
 Beck, O. E., 2D200
 Becker, H., 9E14
 Becker, M., 4D86
 Becker, P., 11J142
 Becker, R. M., 6J55
 Becker, R. R., 9D203
 Becker, S., 2J95, 5B94, 9B72
 Beckett, G. J., 1D119, 3D121, 6D297
 Beckmann, R., 5J144
 Beckner, C. F., 5D144, 10D165
 Beckwith, R. S., 11G12
 Bedford, D. K., 10D215
 Bedford, G. K., 8D218
 Bediar, M., 11E43
 Bedolla-Tovar, N., 9D139
 Bedrik, B. G., 11C38
 Bedrin, L. D., 3B39
 Bedrossian, M., 10B36
 Beduerftig, C., 2C42, 2C43
 Beebe, R. A., 12F24
 Beernaert, H. A. S., 4F69, 7F74
 Beers, P. C., 6D179
 Beevers, S. J., 3D252
 Begue, R.-J., 8D131
 Beguin, P., 1D216
 Beheler, J., 10D111
 Behr, W. T., 9D148
 Beheshti, I., 2D205
 Behl, H. M., 3D101
 Behlau, H., 6J67, 8C1
 Behrens, R. H., 10D118
 Bei, Y., 9B147
 Beierle, F. A., 4D107, 4D108
 Beilby, J. P., 1D145
 Beilharz, G. R., 10D163
 Beilin, L. J., 2D141
 Beilstein, P., 1H41
 Beine, H., 6H25
 Beinert, H., 1D175
 Beines, H., 11B89
 Beizel, N. F., 1B166, 9B186, 10B177
 Bekemeier, H., 8D151
 Bekov, G. I., 1B55, 4H60, 4J128, 4J141, 11B4
 Belaf, F., 6E39, 8E28, 12E56
 Belal, S., 8E7, 11E43
 Belanger, A., 10J140
 Belanger, D., 12C61
 Belanger, G., 5J168
 Belanger, P. M., 4D102
 Belarra Piedrafita, M.-A., 5A10, 5B189
 Belasco, I. J., 7D105
 Belashova, I. G., 11H29
 Belavadi, V. K., 10C51
 Belcher, R., 6B56
 Beldowicz, M., 5C25
 Belen'kaya, I. A., 7H67, 10H79
 Belenkii, B. G., 6J45, 7J73B
 Belen'kii, V. S., 11H53
 Belfield, A., 1D157, 6D306
 Belikodnyi, Yu. A., 7B118
 Belikov, V. M., 6D217
 Belin, D., 10D252
 Belitz, H.-D., 2G3, 9G6, 11F6
 Bell, A. E., 3J90
 Bell, F., 8D47
 Bell, V., 12C57
 Bell, W. E., 1J88
 Bell, W. R., 12D201
 Bellander, B. T. D., 5D94
 Bellenger, P., 5E1, 8E88
 Belleville, F., 6D203
 Belli, R., 1B64
 Belloni, S., 9D214
 Bellon, G., 5D181, 11D171
 Bellows, J. C., 8H36
 Beloded, L. N., 3C67
 Belokon, M. V., 7B59
 Belolipetskaya, V. G., 7D77
 Belotserkovskii, G. M., 12J51
 Belousova, G. M., 6E60
 Belova, I. D., 8C8
 Belova, V. V., 3B107
 Belpaire, F., 9D216
 Beltramelli, G., 11D110
 Beltran Porter, D., 10C36
 Belyaev, B. N., 4B92, 5B119, 11J113
 Belyaev, V. N., 8B64
 Belyaev, Yu. I., 4J116
 Belyakov, V. I., 4A31
 Belyakova, E. T., 9B28
 Belyakova, L. D., 4C35
 Belyanin, V. B., 11J67
 Belyavskaya, T. A., 6B147
 Belyavskaya, V. B., 4H63
 Bem, E. M., 6D44
 Bem, H., 3D28, 6D44, 11H38
 Bem-Baranska, J., 5B66
 Bemelmans, J. M. H., 11F29
 Benadikova, H., 5G30
 Benassi, C. A., 3C61, 7C81

- Bencini, D. A., 4D49, 4D315
 Bencsath, F. A., 6D88, 7D18
 Bendell-Young, L. I., 5J13, 6J179
 Bender, M., 6J68
 Bender, R., 5E54, 10D258
 Benderson, J., 8D210
 Benecke, I., 5C19, 6D212
 Benedek, K. P., 10D254
 Benedetti, A. V., 8J121
 Benedict, A. F., 1H12
 Bencken, M. H., 12D99
 Benelli, L., 9F44
 Benenson, R. E., 12J131
 Benes, L., 4D113, 11D85
 Benet, L. Z., 11D70
 Beneventi, G. P., 5F3
 Beneytout, J. L., 4D165
 Benfenati, E., 3D71, 9D63
 Benfenati, L., 11C57
 Bengert, G. A., 10H52
 Ben-Gigi, C., 8D202
 Bengtsson, C., 4D229
 Bengtsson, M., 12B18
 Bengtsson, M.-B., 10D171
 Ben-Haim, Y., 5A40
 Benjamin, D. M., 12D87
 Benjamin, E. J., 1E18
 Benko, A., 1B136
 Bennett, B. R., 4G30
 Bennett, D. M., 1D49
 Bennett, G. A., 7G3, 7G4
 Bennett, H. P. J., 3D168
 Bennett, J., 8D81
 Bennett, J. L., 9D92
 Bennett, M. J., 10D238, 10D241, 12D119
 Bennett, O. L., 8G6
 Benningfield, L. V., jun., 2J58
 Benninghoven, A., 4J145, 11D227, 12B5
 Benoit, F. M., 6H20
 Benoit, O., 5H15
 Benowitz, N. L., 11D44
 Benraad, T. J., 4D179
 Benson, J. R., 6C12, 6D158
 Benson, T. H., 2D42
 Benson, W. H., 7D27
 Bentia, T., 12D19
 Bentley, D., 8D15
 Ben-Yakov, S., 4J167, 5H46
 Benzerara, O., 4D246
 Benzing-Purdie, L., 10D253
 Berchtold, G. B., 1C28
 Berecz, I., 5J132
 Beregie, S., 3C71
 Berek, D., 10D97
 Berendeev, B. A., 4C92
 Berengard, I. B., 6B75, 11B81
 Berenguer Navarro, V., 5A28, 6C42
 Beres, J., 10D235
 Berezinskii, S. O., 11J113
 Berezkin, V. G., 1J51, 4J62, 4J64, 6J86, 7J72B, 8C10, 9C53, 10J66, 12B96, 12H29, 12J69
 Berg, D., 8D137
 Berg, H. G., 10D73
 Berg, J. D., 8D144
 Berg, R., 11D171
 Berg, S., 6H27
 Berg, W. W., 3H16
 Bergdahl, B., 4D79
 Bergendahl, D. L., 11J121
 Berger, E. G., 6D301
 Berger, G., 9C13
 Berger, R. G., 6F62
 Berger, S., 2F11
 Berger, S. A., 7B28
 Bergert, K.-D., 4D58
 Bergisadi, N., 4E38
 Bergkvist, H., 3E32
 Berglund, R., 6J39
 Bergmann, J., 11B166
 Bergner-Lang, B., 7F69
 Bergquist, P. M., 8C7
 Bergqvist, Y., 10D81, 11D103
 Bergstrom, G., 11J62
 Bergstrom, K., 10D200
 Bergue, J. M., 1J65
 Bergveld, P., 2J108
 Berk, J. A. M., 11D55
 Berka, A., 4C36, 7A8, 8C75, 10C1, 11A15
 Berkes, I., 6D290
 Berkley, R., 9J3
 Berkus, L. M., 11J124
 Berlemont-Frennet, M., 11G39
 Berliner, R., 8J114
 Berlizov, Yu. S., 3C50, 9C61
 Berman, S. S., 4A9, 5B173, 6H62, 7H49
 Bermudez, V. M., 8B140
 Bermudez-Polonio, J., 8B13
 Bernabee, R. P., 1H28
 Bernal, J. L., 10B3
 Bernal Yague, J. L., 12F23
 Bernane, A., 9B53
 Bernard, A. M., 1D154
 Bernardo, J. M., 8B115
 Bernat, S. L., 9D35
 Bernauer, B., 7J4
 Berndt, H., 4J112, 6B151
 Berndt, R., 5B121
 Berne, M., 4D131
 Berner, R. A., 7B70
 Berner, V., 6H13
 Berneron, R., 5B230
 Bernert, J. T., jun., 10D140
 Bernes, A., 12G15
 Bernetti, R., 7F31, 12F41
 Bernhauer, D., 5E8
 Berni, R. J., 9C75
 Bernier, D., 9D216
 Bernth, N., 10B174
 Berridge, J. C., 7J15, 10A17, 10E45, 10J30
 Berry, G., 7D134
 Berry, H. K., 11D249
 Berry, R. K., 9D152
 Berry, R. W., 4D247
 Berry, V. V., 9J15, 11J18
 Berscheid, G., 6D303
 Bershtein, E. M., 9E24
 Bershtein, I. Ya., 9E24
 Bersinger, N. A., 6D263
 Berson, G., 5D199
 Bertels, P. C., 2J77
 Berthelot, C., 11A11
 Berthet, D., 7D76
 Bertholf, R. L., 1D22, 7D128
 Berthou, F., 7C51, 8J16
 Berthoud, T., 5B110
 Berti, C., 5D82
 Berti, G., 2D170
 Bertini, D., 4E61
 Bertko, R. J., 12D239
 Bertocchi, G., 8E9
 Bertol, E., 8D99
 Bertolotto, A., 11D125
 Bertoni, G., 11H26
 Bertram, H. P., 12D12
 Bertrand, A., 6F18
 Bertrand, C., 2D229, 11J17
 Bertrand, D., 6F72, 11G17
 Bertsch, W., 2J45, 2J47, 6H79, 6J66, 6J97
 Berzas Nevado, J. J., 10B12, 11B25
 Besada, A., 5B131, 11B103
 Besana, G. P., 7E34
 Besch, W., 3D167
 Besedina, I. V., 6E3
 Besler, W., 12D44
 Besner, J.-G., 2D59, 6D124, 9D84
 Bessarabov, A. M., 7A4
 Bessems, G. J. H., 3D20
 Bessiere, J., 5B114
 Best, D. C., 12H83
 Beterov, I. M., 5B3
 Betrabet, H. S., 12J77
 Bett, G., 11C44
 Bett, N., 5J2
 Bettelley, J., 9B126
 Bettenfeld, M. L., 11F27
 Betteridge, D., 3A13, 6J15, 6J16, 7C18, 10J106, 11J11
 Bettero, A., 3C61, 7C81
 Betti, A., 3H2
 Betts, T. J., 11D112
 Betz, J. M., 4J29
 Betzold, J., 1C33
 Beuerle, M., 11B164
 Beuge, P., 5B269
 Beunis, M. H., 5D203
 Beutler, H.-O., 5F4
 Beven, J. L., 7D206
 Bevington, J. C., 6C55
 Bewley, D. K., 11B9
 Beyer, C., 9D161
 Beyer, V., 9B136
 Beyerle, A., 6J168, 6J169
 Beyermann, K., 9F21
 Beynon, J. H., 8C2
 Bezegh, A., 12J154
 Bezek, S., 4D113, 11D85
 Bezerezy, E., 10E41
 Bezlepkina, A. I., 4J105
 Bezuglaya, A. K., 9C26
 Bezuglyi, V. D., 8C20
 Bezuidenhout, E. M., 9H39
 Bhagat, C. I., 1D145
 Bhalla, H. L., 11D34, 11E36
 Bhamra, R. K., 4D116
 Bhardwaj, I. S., 2C68
 Bhargava, N., 10B168, 10E27
 Bhargava, O. P., 2B88, 11B129
 Bhat, R., 9B188
 Bhat, S. A., 4B12
 Bhatia, A. B., 2D119
 Bhatia, A. V., 3D256
 Bhatia, S. C., 9D91
 Bhatla, S., 10B26
 Bhatnagar, A. K., 4C53
 Bhatnagar, P. K., 8D39, 12D70
 Bhatnagar, R., 9J11
 Bhatt, L. M., 2C37
 Bhatt, S. T., 11J35
 Bhattacharya, B., 4B186, 4B188
 Bhattacharya, K. N., 4B1
 Bhattacharyya, D. K., 2F45
 Bhattacharyya, S., 3B19
 Bhattacharyya, S. N., 5B161
 Bhatti, M. S., 11B115
 Bhende, S. S., 2G17
 Bhide, N. K., 10F70
 Bhide, S. V., 7D106
 Bhide, V. G., 2J88
 Bhounsule, G. J., 1E25
 Bhuee, G. S., 6B89, 10B70, 10E31, 12E42
 Bhujle, V. V., 8D96
 Bhupal, V., 6D224
 Biagi, G. L., 12E16
 Bian, F., 10D25
 Bian, Y., 8H57, 10H85
 Bianchetti, G., 2D93
 Bianchi, A., 11G16
 Bianchi Bosio, A., 12D208
 Bianchini, J.-P., 4G5
 Bianco, J., 5D64
 Bianco, L., 6F30
 Bianco, P., 7D97
 Biber, A., 9D211
 Bibichev, B. A., 4B92
 Bibikova, T. A., 4B103
 Bibinov, S. A., 7B101, 10B121
 Bican, P., 11F21
 Bicchi, C., 6C47, 6J70
 Bichi, G., 9E30
 Bichsel, S., 8E91
 Bicking, M. K. L., 2G2, 8H35
 Bickmann, F., 10B163
 Bicknell-Brown, E., 9D131
 Bidanset, J. H., 5D64
 Bidigare, R. R., 10J55
 Bidlingmeyer, B., 7J22
 Bidlingmeyer, B. A., 12J38
 Bidwell, D. E., 1D228
 Bieber, L. L., 6D225, 9D184
 Bieganski, M., 5D178, 9C27, 10C39
 Biegler, B., 1D169
 Bielawska, M., 2B24
 Bielska, A., 8E49
 Bienert, R., 10D148
 Bien-Vogelsang, U., 7J25, 11J15
 Bier, D. M., 7F1
 Biersack, J. P., 12B105
 Biesalski, H. K., 8D221
 Biesboer, D. D., 9C90
 Biesuz, R., 11B121
 Biffignandi, P., 8D133
 Biggs, W. R., 12B173
 Bigli, C., 3H2, 11C57
 Bigler, E., 1J61
 Bigley, F., 12J30
 Bignall, J. C., 8D88
 Bigos, S. T., 10D199
 Bigu, J., 8H12, 9H14
 Bij, K. E., 4D286
 Bijster, P., 8D17
 Bila, L. M., 5E28
 Bilal, B. A., 11J142
 Bilien, C. S., 4J139
 Biliewicz, R., 3B46
 Bilii, O. V., 5E28
 Bilikova, A., 9H79
 Biller, L. M., 10C15, 12C14
 Billits, S., 5H94
 Billiet, H. A. H., 2E7, 7C36, 8J22, 10E8, 11D198
 Billiet, J., 7B123
 Billings, M., 1D39
 Billington, M. J., 7F43
 Binuraev, S. B., 9C1
 Bin Ahmad, R., 2D43
 Bindels, J. G., 1D151
 Binder, H., 6H34, 8H85
 Binder, T. P., 9D269
 Binenfeld, Z., 7E41, 7E42
 Binkler-Timeus, E., 9E14
 Binkhuysen, D., 9D157
 Binkle, B., 12C57
 Binkley, D. A., 12D89
 Binkowski, J., 5C6
 Binns, R. B., 9E23
 Biou, D., 1D83
 Birch, B. J., 2J111, 5J172, 6C46
 Birch, G. G., 11F46B
 Bird, J. R., 12J142
 Birge, W. J., 7D27
 Birke, H., 2J44
 Birkett, D. J., 2D113
 Birkholz, W., 5J160
 Birks, J. W., 4C28, 7C10, 7E9
 Birks, L. S., 8J80
 Birmingham, B. K., 6D73
 Birnie, R. V., 4G2
 Birnstein, D., 9B178
 Biron, P., 9D84
 Birsanescu, A., 4C7
 Birsk, I., 5D217, 5D223
 Biryuk, E. A., 1B94
 Biryukova, N. F., 2G19
 Bischoff, R., 5D222
 Bisgaard, P., 8H24
 Bishay, A. F., 9B85
 Bishop, E., 1B7, 4J172, 4J173, 5B207, 6A7, 6H94, 7E24, 7E31, 8E11, 8E60, 10E24, 12E13, 12E45
 Bishop, R., 2D193
 Biso, J. N., 4D25
 Bissinger, J. M., 3C16
 Bistline, R. G., 4C72
 Biswas, S. K., 11D12
 Bito, L. Z., 7D20
 Bittner, S., 9F13
 Bitzan, E. F., 9C63
 Bizuk, M., 10H74
 Bjellqvist, B., 11J44
 Bjerg, B., 10D117
 Bjerre, N., 10B113
 Bjerrum, O. J., 1D222
 Bjoerseth, A., 9A6B
 Bjorkhem, I., 1D121, 4D85, 7D145, 7D149, 7D177, 8D145, 10D143
 Bjorkman, S., 7D73
 Blaauweers, H. J. A., 8E44

- Black, D. B., 8C73
 Black, J. A., 7D27
 Black, J. F., 6B40
 Black, M., 6D35
 Black, M. J., 7D250
 Black, W. C., IV, 11J43
 Black, W. D., 4D82
 Blackham, A. U., 5B273
 Blackman, G. L., 2D169
 Blackwell, B. A., 1G16, 9G5
 Blades, M. W., 9C24
 Bladier, D., 5D252
 Bladt, S., 1E45B
 Blagodatskikh, S. V., 12D88
 Blagorazumnaya, N. V., 6E57
 Blagrove, R. J., 11D139
 Blaha, J. J., 7F7, 12J6
 Blair, I. A., 9D128, 10D132, 12D125
 Blake, C., 12D2
 Blake, M. S., 9D199
 Blake, S. H., 1D74
 Blakely, R. D., 4D21
 Blakemore, W. M., 4G26
 Blakeney, A. B., 12D113
 Blakesley, D., 3G13
 Blakesley, J., 8D15
 Blakley, C. R., 9D9
 Blanc, M., 8D57
 Blanchard, D. S., 3D52
 Blanchard, F., 8G3
 Blanchflower, W. J., 10D125
 Blackaert, N., 4D267
 Blanco, M., 3C39, 4B170, 4B184, 7B72
 Bland, P. D., 2G31
 Blank, A., 8D238
 Blank, A. B., 4B195, 9A39, 11B168
 Blank, C. L., 10D157
 Blank, M., 3D270, 3D271
 Blank, M. L., 4D168
 Blanke, R. V., 2D85, 3D55, 3D64
 Blanken, H. I. G., 9D253
 Blankenberg, P., 12H10
 Blaschke, G., 11E22
 Blasius, E., 4C77
 Blaszkewicz, M., 12C25
 Blatt, M. L., 10J10
 Blauw, J. S., 4D81
 Blazka, P., 3H55
 Blazquez, T., 3B58
 Blehm, K. D., 1H15
 Bles, N., 5H39, 5H44
 Blick, K. E., 7D246
 Bliet, C., 8F25
 Blijenberg, B. G., 1D96, 5D197, 6D257
 Blinova, E. S., 11B1
 Blinova, T. I., 6E61
 Blinovskii, I. K., 5G27
 Bliss, D., 4D255
 Blo, G., 3H2, 11C57
 Block, H. J., 7G19
 Block, M. F. M., 11G1
 Bloemers, H. P. J., 3D206
 Blok, V. C., 9H68
 Blom, W., 6D146
 Blomberg, L., 3J59, 4J70, 6J57, 9J58, 12J64
 Blomberg, S., 2J1
 Blomqvist, J., 5C96
 Blondiaux, G., 12B186
 Bloom, F., 11D185
 Bloom, M. Z., 1C38
 Bloom, N. S., 7H33, 8H52, 8H53
 Bloom, S., 9D23
 Bloomfield, D. J., 11J82
 Blosser, N., 12D21
 Bloquist, Y., 2D216
 Bloxam, D. L., 1D140
 Blum, J., 5C31
 Blum, L. J., 2D151, 2D229
 Blumberg, W. E., 9D223
 Blumer, J. L., 6D109, 10D69, 11D53
 Blunden, A., 9A32
 Board, R. D., 1J29, 11J20
 Boarder, M. R., 10D181
 Bobbie, B. A., 10D66
 Bobbenneth, M. J., 5C41
 Bobin, M. F., 5C90
 Bobkova, T. A., 6E60
 Bobleter, O., 11C61, 12C1
 Bobrova, O. N., 11C72
 Bobrowski, A., 10J147
 Bocca, A., 4F79
 Boccacci Mariani, M., 9G26
 Bocek, P., 3H37
 Bochenin, V. I., 5B228, 11J73
 Bochner, B. R., 1D10
 Bock, E., 1E5
 Boddy, R., 5A45B
 Bode, K., 1B19, 6H48
 Bode, P., 9J119
 Bodnya, V. A., 7B50
 Bodourian, S. H., 9D21
 Boehm, H., 1B41, 12J152
 Boehme, H.-R., 9D4
 Boehme, W., 3J30, 4B111, 8J85
 Boehmer, W., 1J74
 Boehnlein, L. M., 12D142
 Boelens, M., 6D85
 Boelke, L., 3D151
 Boer, G. J., 3D164
 Boer, P., 9D125
 Boerma, G., 10D143
 Boerma, G. J. M., 5D140, 6D182
 Boerner, I., 11D75
 Boertzel, H., 10H93
 Boesch, P., 10H9
 Boesiger, G., 3D49
 Boettger, H. G., 8A23
 Boettger, M. L., 9B178
 Boettger, T., 4B20
 Bogaert, M., 4B70
 Bogaert, M. G., 6D107
 Bogatskii, A. V., 3B9, 9J126, 12D168
 Bogatzki, B. F., 10C79
 Bogdanichikov, A. I., 4H31
 Bogdanov, M. N., 12B93
 Bogdanskii, S. L., 5B134
 Bogel'fer, N. M., 8C82
 Bogenschuetz, A. F., 4B3
 Boggess, R. K., 1J63
 Bogomol'nyi, V. Ya., 9C84
 Bogomolov, B. D., 9C72
 Bogoslovskaya, T. A., 3H35, 4B179
 Bogoslovskii, V. V., 10C72
 Bogulaski, R. C., 10D51
 Bogusz, M., 3D12
 Bohatka, S., 5J132
 Bohgard, M., 10H8
 Bohn, G., 4D105
 Bohn, H., 8D205
 Bohn, P. W., 9B188
 Bohner, J., 5D239, 9D252
 Bohov, P., 10D127
 Boiko, A. I., 12B95, 12B96
 Boink, A. B. T. J., 6D33
 Bojanovski, D., 5D211
 Bojarski, J., 8E51, 12E38
 Bojewski, J., 2F8
 Bokelman, G. H., 1D79
 Bokhnyuk, V. S., 4B47
 Bokic, L., 11C71
 Bokovikova, T. M., 3E50
 Bolanowska, W., 12D71
 Bolas, P. M., 10D219
 Bolch, W. E., 11J121
 Bolelli, G. F., 4D189, 12D140
 Boley, N. P., 8F2
 Bolling, H., 3F13
 Bollinger, M. J., 5H22
 Bolotin, A. A., 2E17
 Bol'shakov, A. A., 6B29, 11J4
 Bol'shova, T. A., 6B11, 6B68
 Boltenkov, B. S., 1B5
 Bolton, A. E., 8D205
 Bolton, D., 2C33
 Bolton, H. C., 4J75
 Bolvanov, Yu. A., 1J23
 Bolyard, M., 1H21
 Bolychev, V. S., 3B93
 Bolygo, E., 2F32
 Bombach, G., 5B269
 Bombach, H., 5B169
 Bombardelli, E., 6D258, 6E19
 Bombelka, E., 10H3
 Bombick, D., 12J123
 Bomgren, B., 1D139, 9E55
 Bonasso, F., 5D127
 Bond, A. M., 3J29, 3J116, 4B67, 5J183, 6B41, 6D48, 8D172
 Bondar, V. P., 10B118, 11B120
 Bondarenko, G. V., 2B84, 9J75
 Bondarenko, O. M., 4E4
 Bondareva, N. V., 9B35
 Bondarevskaya, E. A., 2H70, 4C33
 Bonel, G., 10D37
 Bonelli, A., 8D99
 Bonet, J.-J., 12J19
 Bonetto, R. D., 8J78
 Boneva, A. S., 11E41
 Boneva, S., 4C54
 Bonfanti, M., 4D138
 Bonferoni, B., 6D100
 Boni, C., 1D88
 Boniforti, L., 9F1
 Bonitz, U., 11J88
 Bonn, G., 11C61, 12C1
 Bonner, R., 3D205
 Bonner, R. F., 3D254
 Bonnet, B., 10C87
 Bonnet, C., 10F12
 Bonnet, J., 6J112
 Bonomo, F. S., 12H101
 Bonsignori, O., 3J30
 Boobis, L. H., 3D97
 Boocock, D. G. B., 4C78
 Boomsma, F., 6D305
 Boos, K.-S., 4J26, 7D223, 9D237
 Booth, N. H., 12D84
 Boparai, A. S., 11G36
 Bopp, R. J., 5D57
 Boratynski, J., 10D119
 Borbely-Kiss, I., 12D17
 Borbely-Kuzmann, A., 4J51
 Borchman, D., 9D131
 Borda, J., 3D60, 5C55, 10C46
 Bordas, B., 4J51, 10C25, 10J62, 12E38
 Bordeianu, R., 4C34
 Bordi, F., 7D162
 Bordin, S., 10J131
 Bordoli, R. S., 10E43
 Borea, P. A., 12E16
 Borek, V., 8C75
 Borel, J. P., 1D206, 5D181, 11D171
 Boren, H., 1D139, 9E55
 Borer, W. Z., 4D254
 Borgard, J. P., 6D160
 Bories, G. S. F., 3D41, 7D51
 Bormann, S., 12H10
 Borner, E., 6D64
 Borner, K., 1D44, 1D111, 6D64, 10D143
 Bornhop, D. J., 1J56
 Borodina, N. G., 4C96
 Borodina, O. M., 11B165
 Boross, L., 7D178
 Borossay, J., 10C58
 Borovleva, A. N., 9B60
 Borov'ska, N. V., 6E13
 Borowy, D. E., 1G9
 Borra, C., 12D141
 Borrebaek, B., 11D218
 Borroni, A., 4H39
 Borsetti, A. P., 12F9
 Bortsova, O. P., 11B127
 Bory, C., 11D220
 Bos, A. J. J., 4D55, 11D16
 Bos, M., 8C66, 11A29, 11A30
 Bos, P., 4J36, 7J138
 Bos, U., 4A12
 Bosch, A. M. G., 9D56
 Bosch, E., 11A13
 Bosch, L. C., 5C71
 Bosch Bosch, N., 12F2
 Boschi, S., 5D82
 Bosch Reig, F., 3B60, 3B91, 5B177, 5B221, 6B146, 6C63, 6D45, 8B67
 Bosch Serrat, F., 5D49, 10C34
 Bosin, E., 4D250
 Bosio, E., 12D227
 Boskma, R. J., 11D55
 Bosman, F. T., 4D261
 Bosman, R., 5B275
 Boss, C. B., 1J67
 Bossle, P. C., 3C23, 9C93
 Bostedor, R., 5D207
 Boter, H. L., 7E44
 Botez, L., 12C55
 Botha, P. V., 9B93
 Botham, K. M., 1D119
 Bothe, H. K., 5B274
 Bothe, L., 11C75
 Bothwell, P. D., 3H17, 12H35
 Botallico, A., 11G6
 Botto, R. I., 8J92
 Bottomley, P., 1G11, 7G33
 Botton, B., 9D249
 Botvinova, L. E., 9E21
 Bouchard, D. C., 5G35
 Boucuy, P., 6E31, 8E54
 Bouda, T., 11B57
 Boudeville, P., 5E26
 Boudewijn, F. B., 2J76
 Boudoulas, H., 12D72
 Boudoulas, O., 7D57
 Bouffieux, C., 4D322
 Bouissou, H., 6D183
 Boukouvalas, J., 9C39, 10D256
 Boularan, A. M., 7D144
 Boulenger, P., 2C66
 Boulet, R., 10C54
 Boulieu, R., 11D220
 Boullin, D. J., 8D153
 Boulton, C. H., 2D114
 Bouneine, J. P., 11A20
 Bouquet, S., 10D106
 Bourbon, P., 3D27
 Bourdon, R., 3D2, 5D19, 9D42, 10D62, 11D37
 Bourdon-Ranisteano, S., 3D2
 Bourgeois, C., 3F17
 Bourgeois, C. F., 9G11
 Bourguignon, J., 4D318
 Bourke, G. C. M., 5B164
 Bourne, D. W. A., 4D103, 5D87
 Bourne, S., 11G36
 Bourson, J., 6D174
 Bousquet, B., 11J27
 Boussieux, A.-M., 4D192, 7D144
 Boutin, J. A., 7D243
 Boutton, T. W., 4D42
 Bouwer, H. K., 4J98
 Bouyoucos, S. A., 1H14
 Bovara, R., 9D99, 9D145, 10D236
 Boveda, M. D., 10D146
 Bowden, M., 10J109
 Bowden, P., 11B154
 Bowen, B., 4A32
 Bowen, D. V., 10E43
 Bowen, J. M., 10D12, 10D13
 Bowen, L. H., 11B20
 Bowen, W. H., 9D122
 Bowermaster, J., 6J28, 11J22
 Bowers, G. N., jun., 8D241
 Bowers, L. D., 7D45, 11D129, 11D130
 Bowers, M. B., 6D163
 Bowers, W., 3D119
 Bowers, W. D., 6H28
 Bowie, L. J., 1D125, 10J13
 Bowman, P. B., 3E27, 9E11, 9E12
 Bowman, R. L., 12D3
 Bowman, R. S., 10G9
 Bownik, M., 4J2
 Bowsher, R. R., 9D164
 Bowyer, D. E., 12D129, 12D130
 Box, J. D., 4H74
 Boyarkina, A. V., 12H3
 Boyarsky, V. M., 12F37

- Boyd, D., 9J35
 Boyd, G. S., 1D119
 Boyer, H., 10J107
 Bozadziev, P., 4G15
 Boznyakova, G. P., 6B2
 Bozsai, G., 11H40
 Bozzelli, J. W., 2H20
 Braatz-Greeske, K., 4E51
 Brabec, V., 5D39
 Bracciali, A., 4F26
 Brackett, J. M., 2J78, 6J136
 Bradbury, E. M., 5D2
 Bradbury, H. E., 4F32
 Bradbury, W. C., 11D117
 Braddock, P. D., 8E75, 12E44
 Brade, H., 3A3
 Bradley, C. E., 12D119
 Bradford, D. C., 2J61
 Bradlaw, J. A., 4F34
 Bradley, C. V., 1D46
 Bradley, M. P. T., 12J28
 Bradlow, H. L., 7D18
 Bradlow, J. M., 11G26
 Bradshaw, J. S., 1J53, 4J73, 6J88, 8J59, 9J59, 11J47
 Bradshaw, W. G., 6C43
 Bradwell, A. R., 2J102
 Brady, D. W., 5D212
 Brady, S. T., 11D246
 Braetler, P., 1D21
 Bragin, V. G., 4J140
 Bragintseva, L. M., 2D143, 4D164
 Braidwood, J. L., 4D277
 Brainina, Kh. Z., 4H54, 9B94, 11H48
 Brajter, K., 1B146, 8B125
 Brajter-Toth, A., 5E52
 Bral, D., 1D5
 Braman, R. S., 3H9
 Bramstedt, W. R., 5B233, 11C3
 Branch, C. H., 2B62
 Branch, R. A., 12D76
 Branchflower, R. V., 3D254
 Brand, A., 8H16
 Brandl, W., 6F61, 9F43
 Brandone, A., 2H43
 Brandslund, I., 6D251
 Brandsteterova, E., 10G22, 11G32
 Brandstettr, J., 11B79
 Brandt, A., 11H55
 Brandt, R., 5J144
 Brandt, R. B., 8D255
 Brantner, A., 4E2
 Brar, B. S., 1B36, 5B17
 Brar, N., 6D213
 Brach, J. W., 10H91
 Brashear, A., 1D98
 Bratanov, V., 8A6
 Bratchikov, A. V., 4C92
 Bratchin, V. V., 4H46
 Bratton, G. R., 10G14
 Bratusch-Marrain, P., 10D174
 Braude, A. Yu., 11J23
 Brauer, H., 4J124
 Brauman, J., 6D32
 Braun, C., 1B105
 Braun, D., 2C63, 4C79
 Braun, H., 12H17
 Braun, H. E., 4G28
 Braun, M., 5B5
 Braun, R., 6E22
 Braun, S., 8D237
 Braun, T., 5B54
 Braunova, I., 4H64
 Braunstein, G. D., 4D258
 Bray, A. R., 6B99
 Brazell, M. P., 5D172
 Brazell, R. S., 12H39
 Brazhnikov, V. V., 2J17, 2J18, 5J16
 Brazier, D. W., 5C115
 Brazier, J. L., 1E20, 4E52
 Breccia, A., 2D106
 Brechany, E. Y., 7D115
 Breckenridge, A. M., 8D83
 Bredael, P., 2J41
 Bredehorst, R., 7D221
 Breder, C. V., 4F46, 10E5
 Breenblatt, D. J., 6D94
 Breer, H., 4D294
 Brehm, M., 4E12
 Breimer, D. D., 2D187, 6D103, 7D62
 Breitenbeck, G. A., 5G13, 11G9
 Breitung, E., 12J3
 Breitwieser, C., 2C12
 Bremeker, K.-D., 4E6
 Bremer, E. G., 6D176, 6D177
 Bremer, J., 11D218
 Bremner, H. A., 8F31
 Bremner, J. B., 4H84
 Bremner, J. M., 5G12, 5G13, 11G9
 Brenna, J. T., 12D20
 Brenna, S., 1D124
 Brennan, S., 4C75
 Brennecke, S. P., 8D124
 Brenneke, K., 4C57
 Brenner, G., 12J30
 Brenner, K., 12B14
 Brenner, M., 4J87
 Brenner, S. S., 5J134
 Bres, J., 4D67
 Breslin, M. C., 4D64
 Breslin, J. A., 2H5
 Bressolle, F., 4D67
 Brestovskiy, A., 6B30
 Bretaudiere, J.-P., 10D137, 12D134
 Breth, A., 5A38
 Bretherick, L., 7A24
 Bretschneider, H. J., 8H70
 Breukelman, H., 2D171, 3D133
 Breward, N., 7H30
 Briand, P., 6D275
 Brianza, M., 5F34, 6F79
 Brice, A., 8D61
 Bricout, J., 7F78
 Brien, J. F., 3D134, 5D109, 10D110
 Briesmeister, R. A., 8J102
 Briggs, C. J., 10D142
 Briggs, D. R., 6F29
 Briggs, M. H., 6D48, 8D172
 Bright, D. S., 3H3
 Bright, G. R., 1D4
 Briguglio, G. T., 12E23
 Brij, R., 3D57
 Brill, A. S., 3E51
 Brill, M., 2B32
 Brilmyer, G., 2J109
 Brimer, L., 1F6, 2D127
 Brinckman, F. E., 7D100
 Bringuier, A.-F., 5D208
 Brinkman, U. A. T., 1J24, 1J32, 3J44, 3J46, 4D128, 7C10, 7G36, 7H74, 8D166, 8H89, 8J29, 9G21, 11C65, 11J31, 12G9
 Brinkman, W. J., 3D274
 Brinkworth, S. J., 7C80
 Brinton, R. E., 2D190
 Brisson, A. M., 10D106
 Bristow, A. F., 5D210
 British Standards Institution, 2H51, 2J126, 4B112, 4C80, 4F64, 4F65, 4F77, 4G4, 5C114, 6B33, 6B34, 6B139, 6B178, 6C50, 6C62, 6G14, 6G15, 6G18, 6G30, 6J7, 6J8, 6J11, 7C67, 7C68, 7C69, 7C70, 7C71, 7C74, 7C75, 7C76, 8B104, 8C92, 8C93, 8C94, 8F53, 8G8, 9B37, 9B38, 9C57, 9C59, 9C74, 9H36, 9H43, 9H59, 9J146, 11C8
 Britten, A. Z., 6D53
 Britten, J. J., 4D326
 Britton, V. J., 4D239
 Brix, H., 5D24
 Brizzi, G., 11D119
 Broad, L. A., 10E43
 Brockelbank, J. L., 12D193
 Brockhausen, I., 5D240
 Brode, E., 6D108
 Brodows, R. G., 4D229, 4D257, 9D141
 Brodski, S. M., 12H44
 Broekaert, J. A. C., 4B46, 12J98
 Broertjes, J. J. S., 3D114
 Brogdon, W. G., 1D217
 Broit, B. B., 8B120
 Broisma, M. F. J., 4D296
 Bromba, M. U. A., 3A14
 Bromberg, I. L., 9D1
 Bromet, N., 5D72, 11D79
 Brooke, O. G., 3D236
 Brookes, B. I., 2H18, 8H21
 Brooks, A. G. F., 2F46
 Brooks, B. A., 1D230
 Brooks, C. J. W., 5D142
 Brooks, J. S., 10J5
 Brooks, M. A., 7D56, 11D50
 Brooks, P. M., 2D113
 Brooks, R. R., 8B97
 Bros, E., 5J56
 Brossat, B., 6D203
 Brossi, A., 5D166
 Brossier, P., 11C4
 Brossmer, R., 9D273
 Broughton, P. M. G., 1D7
 Brouillard, C., 12D159
 Brouwer, H. J., 6D257
 Brouwer, J., 3D204
 Brouwers, J. R. B. J., 11D55
 Brovina, A. I., 1B44
 Brower, J. F., 2E22
 Brown, A. A., 2D33, 8D24
 Brown, B. A., 1D174, 8D35
 Brown, C. E., 12J114
 Brown, C. S., 10G8
 Brown, C. W., 4D167, 4J137
 Brown, D. F., 11G29
 Brown, F. D., 9D196
 Brown, G. E., 11D246
 Brown, H. M., 7J131
 Brown, I. K., 9J108
 Brown, I. R. F., 3D236
 Brown, J. D., 6J117, 7B73, 9J107
 Brown, K. F., 7D61
 Brown, L., 6H92
 Brown, M. J., 6D61, 9G25, 11D87
 Brown, M. W., 10G10
 Brown, N. J., 3D84
 Brown, P., 10D214
 Brown, P. L., 1D156
 Brown, P. M., 6D144
 Brown, P. R., 4J84B, 6D278, 7D214, 7D215, 7D226, 11D155, 12D211, 12D212
 Brown, R. D., jun., 10B152, 10D47
 Brown, R. H., 1H1
 Brown, R. J., 12B173
 Brown, R. M., 12B134
 Brown, R. S., 7J36
 Brown, S., 1D22
 Brown, S. D., 11F50
 Brown, S. S., 5D61
 Brown, W. C. B., 12D11
 Brown, W. V., 9D264
 Browne, M. K., 2E41
 Brownlee, R. T. C., 12E29
 Brownsey, B. G., 8D132
 Broz, L., 5J30
 Bruce, R. C., 9G7
 Bruchertseifer, H., 6B152
 Bruchet, A., 10H71
 Bruckenstein, S., 1H9, 11J140
 Bruder, G., 6D291
 Brueggerhoff, S., 4H53
 Bruegmann, L., 5H43
 Bruene, H., 9F27
 Bruening, I. M. R., 5C73
 Bruester, H. T., 10D196
 Bruewer, T. B., 11H28
 Brugger, E., 5D245
 Bruins, C. H. P., 5A32, 7E38
 Bruk, A. Yu., 11C16
 Brule, G., 6F49
 Brumleve, T. R., 7B105
 Brumley, W. C., 1D64, 2E13, 7D102, 7F49, 8F65
 Brummer, M., 6H24
 Brun, Y., 9D49
 Bruner, F., 2H60, 4H34, 6H22, 7H19, 12J61
 Brunn, H., 5D149
 Brunnekreeft, J. W. I., 5D140
 Brunnemann, K. D., 1D75
 Brunner, C. A., 1C2
 Brunner, J., 5C99
 Brunner, W., 7G24
 Bruno, P., 1B134, 12B138
 Bruns, D. E., 12D204
 Brunt, J. D., 8D124
 Brunt, K., 3C13, 3D259
 Bryant, R. G., 2B8, 5B30
 Bryant, R. W., 7D125
 Bryantseva, M. N., 5B138
 Bryce, F., 5D111
 Brydon, W. G., 5D174
 Brykina, G. D., 1B19, 6B147
 Brykina, T. P., 9A9
 Bryuzgin, A. R., 8C27
 Brzezinska, A., 5H40
 Brzozka, Z., 5B225
 Brzyska, W., 4B77
 Bsebsu, N. K., 7B87
 Buchadze, N. S., 7H27, 11H37
 Buchnikova, L. A., 5B194
 Buebert, H., 3J70, 4A13
 Bubic, M., 10B134
 Bubnis, B. P., 5B216, 10B27, 12J13
 Bubon, N. T., 8E90
 Bubon, V. S., 6D138
 Buchan, R. M., 1H15
 Buchanan, A. S., 5H72
 Buchanan, D. N., 5D127
 Buchanan, E. B., jun., 3B43
 Buchanan, K. D., 2D181, 6D230
 Buchanan, M. V., 12C51
 Buchberger, W., 2C12, 2E18, 9G18, 9G22
 Buchele, D. R., 2J127
 Bucher, P., 7J45
 Buchholz, N., 4J3, 4J4
 Buchwald, W. F., 2D52
 Buck, M., 6H25
 Buck, R. P., 5J176
 Buck, W. B., 2D117
 Buckhold, D. K., 9D31
 Buckingham, W., 8D50
 Buckle, K. A., 2F38
 Buckler, R. T., 1D48
 Buckman, N. G., 5C44, 8C29, 9H74
 Bucky, G., 10J149
 Budahegyi, M. V., 2J40
 Budai, Z., 3D60
 Budantseva, M. N., 12H29
 Budd, R. D., 4D112, 12D59
 Budde, W. L., 7H54
 Buddin, N. P., 5J64
 Buddrus, J., 7J40, 8J65
 Budesinsky, B. W., 2B19, 10B38
 Budevskiy, O., 5E33
 Budini, R., 5D258
 Budke, C. C., 9G4
 Budnikov, G. K., 4B22, 4B114, 5B24, 5J179, 10B90
 Budzikiewicz, H., 12F43
 Bueding, E., 2D112
 Bueker, I., 1F9, 3D73
 Bueno, M. P., 4F42
 Buerger, E., 9D245
 Buess-Herman, C., 12B36
 Buettler, B., 1G13
 Buffat, P., 5H11
 Buffett, C. E., 5J83
 Buffone, G. J., 3D220, 12D187
 Bufton, J. L., 10H21
 Bugaevskii, A. A., 8B79, 9A9, 11A18
 Buhl, F., 2A8, 2B13, 10B48, 12B46
 Bui, K. H., 8C83

- Buice, R. G., 10D75
 Buijten, J., 3J59, 4J70, 6J57, 9J58, 12J64
 Bukhantsova, V. G., 3J76
 Bukhlova, T. I., 4B54
 Bukhteeva, L. N., 6B158
 Bukhtenko, L. N., 4C21
 Bukoven, P., 7J140
 Bukowskyj, M., 1J25
 Bulard, C., 10D130
 Bulatov, M. I., 4C17, 7B4
 Bulatova, A. A., 4C17, 5A21, 7B4
 Bulawa, M. C., 10D157
 Buldini, P. L., 1B69, 9H83, 10B73
 Bulenkov, T. I., 8E55
 Bullingham, R. E. S., 10D54
 Bullita, R., 12D208
 Bu'Lock, D. E., 9D144
 Bulovic, V., 5B122, 5B123
 Bult, A., 8E69, 10E2
 Buluk, P., 1E36
 Bulyaki, M., 9D222, 12E9
 Bulyanitsa, L. S., 4B92, 11B60
 Bulycheva, Z. Yu., 4C43
 Bumbalova, A., 11E30
 Bumgarner, J., 9J3
 Bunch, E. A., 8E78, 8E79
 Bunday, S. D., 7B104
 Bungay, P. M., 3D254
 Bunikiene, L., 4A30
 Bunkin, A. F., 9H42
 Bunner, D. L., 10D111
 Bunting, P. S., 1D34
 Buntman, D. J., 10D244
 Bunyagidi, C., 2D50
 Bunyan, P. G., 6D144
 Bunyatyan, Yu. A., 6H4, 7H6
 Burratti, M., 10D35
 Burchard, W.-G., 7B55
 Burchill, P., 2C51, 8C63, 10H68, 10H69
 Burd, J., 9D193
 Burd, J. F., 1D48, 10D51
 Burda, J., 5C61
 Burdett, G. J., 5B271, 7H10
 Burdina, G. G., 1B15, 3B48, 4B74
 Burdo, R. A., 12B180
 Bureau International Technique du Chlore, 8B105
 Burek, R., 9B12
 Bures, J., 4H23
 Burfield, D. R., 12C13
 Burford, R. P., 4C99
 Burg, W. R., 12H40
 Burge, D. E., 7J44
 Burgemeister, E. A., 7B74
 Burger, K., 3D241
 Burger, N., 9E56
 Burgess, C., 3J27, 6E26
 Burgess, D. D., 8A25
 Burggraaf, M., 2D37
 Burggraff, J. M., 7F91
 Burghes, A. H. M., 2J34, 7J50
 Burgot, J. L., 5E26
 Burgudzhiev, Z., 11A25
 Burguera, J. L., 5C13, 5D23, 9B114, 12D19
 Burguera, M., 5B134, 5C13, 5D23, 9B114, 12D19
 Burini, G., 7C34
 Burk, R. C., 5B108
 Burke, M. A., 5J125
 Burke, M. D., 3D52
 Burkett, E. S., 10D59
 Burkanov, O. A., 5C5
 Burkinshaw, J. R., 5B273
 Burleson, J. L., 5H85
 Burmeister, H. H., 2D117
 Burmistrova, T. A., 11D26
 Burnett, D., 5D61
 Burnett, D. S., 8B6
 Burnett, T. J., 9D267
 Burnett, W. C., 4B87
 Burnette, B., 6D274
 Burnham, A. K., 12B174
 Burnison, B. K., 11H46
 Burns, A. J., 4G33
 Burns, C. M., 9J35
 Burns, D. H., 5J81
 Burns, D. T., 2B73, 6B165, 8B123
 Burns, D. W., 12J97
 Burns, M. E., 8A27
 Burns, W. F., 3C60, 5J51
 Burova, M. O., 7C56
 Burr, K. J., 11J148
 Burridge, J. C., 5B163, 5B202
 Burrows, G. D., 7D71
 Burrows, G. W., 5E46
 Burrows, J. K., 7F68
 Burse, V. W., 2D118, 8D93, 8D101, 8D102
 Bursey, M. M., 5B21, 6J161
 Burt, G. F., 9E25
 Burtis, C., 12D238
 Burtis, C. A., 4D298
 Burtner, D. R., 7J117
 Burton, R. W., 7D59, 11D68
 Burtischer, E., 11C61, 12C1
 Burtseva, I. G., 4J106
 Buryak, V. I., 1C16
 Busch, K. L., 5J127, 7J108, 9J115
 Buseck, P. R., 8H9
 Buser, H. R., 12C38
 Bush, B., 12D106
 Bush, C. A., 11D207
 Bush, E. D., 1D69
 Bush, G. A., 4J10
 Bush, I. E., 8J50
 Bush, P. B., 12D84
 Bush, S. G., 6J84
 Bushee, D. S., 11H44
 Bushell, G. R., 4D337
 Bussi, J., 6B180
 Busslinger, A., 4D290
 Buszewski, B., 3J19, 10D128, 10J22, 10J23, 10J27
 Butakova, N. A., 9B161
 Buteau, C., 8F60
 Butkevicius, J., 4A30
 Butkunas, R., 3D195
 Butler, H. T., 3J48, 7J53, 8C39, 12J66
 Butler, S. W., 4F1
 Butok, L. Ya., 8H32
 Butrimovitz, G. P., 2D228
 Buttery, J. E., 9D30
 Butts, R. J., 5D119
 Buursma, A., 2D214, 10D225
 Buyanova, L. M., 1B166, 10B177
 Buyanovsky, G. A., 1G5
 Buys, T. S., 11J66
 Buytenhuys, F. A., 11D198
 Buyuktimkin, N., 6E54, 7E28
 Buzasi-Gyofri, A., 5B235, 5B236, 5B237
 Buzinkaiova, T., 10G21
 Buzlanova, M. M., 5C43, 10C7
 Buzuk, G. N., 5E7
 Buzukin, B. I., 12H74
 Buzzigoli, G., 1D88
 Bychkov, E. A., 9J133, 11J126, 11J131
 Bychkov, V. A., 6J157
 Bye, R., 6B126, 11B35
 Bygdeman, M., 4D166
 Byhovskii, M. Ya., 11J23
 Bykh, T. A., 9B27
 Bykhovitsova, I. V., 8B100
 Bykhovitsova, T. T., 4B145, 8B100, 9J81
 Bykova, L. N., 10J141
 Bylsma-Howell, M., 4D119
 Byrd, J. T., 8H60
 Byr'ko, V. M., 6B22
 Byrne, A. R., 5C66, 9F4
 Byrne, K. M., 12C66
 Byrne, R. E., 2H13
 Byron, P. R., 6D53
 Bystricky, L., 5G39
 Bystrov, S. V., 11B141
 Bystrova, G. I., 7C31
 Bythewood, T. K., 11H17
 Bzezinska, A., 4H18
 Cabezudo, M. D., 10F64
 Caboche, M., 8G3
 Cabon, J. Y., 5H69
 Cabrera, M. P., 4D42
 Cabrera Martin, A., 9B45, 9B97, 10B170
 Caccia, S., 9D63
 Cachia, P. J., 3D162
 Cacho Palomar, J., 5B38
 Caddy, B., 4D237, 9D191, 9G8
 Caddy, D. E., 10H40
 Cadet, J., 7D216
 Cadoff, B. C., 6H19
 Caffin, R. N., 5J3
 Cafmeyer, J., 7D17
 Cagniant, D., 11C51
 Cai, L., 10D25, 10J133, 12J158
 Cai, P., 8E23
 Cai, Q., 12C7
 Cai, R., 4B76, 6B77, 11B47, 12B64, 12B65
 Cai, X., 2B38
 Cai, Y., 5E21
 Cai, Z., 5D159
 Caille, G., 9D84
 Cailleux, A., 4D111
 Caine, E. A., 10D215
 Caines, P. S. M., 11D27
 Cairnes, D. A., 4D132
 Cairns, T., 11G38
 Cais, R. E., 5C104
 Cakir, O., 8B132
 Cakrt, M., 5J167
 Calabro, G., 8C67
 Calam, D. H., 5D143
 Calaresu, G., 6F38
 Calatroni, A., 2D74, 7D203
 Calbreath, D. F., 6D235
 Calcagno, C., 9A19
 Calder, I. C., 11D69
 Caldini, A. L., 12D140
 Caldwell, K. D., 2J125
 Caletka, R., 1B2, 1B95
 Caliskan, Z., 3E26
 Call, H. P., 11D252
 Calley, G., 7D180
 Callis, J. B., 5J81
 Calliva, R., 1D99
 Calokerinos, A. C., 2B65, 8B93, 9B104
 Calop, J., 2E54
 Calu, C., 1D195
 Calvert, R. T., 2D90
 Calvey, R. J., 7F26
 Calvo, A., 1B33, 3B110
 Calzaferri, G., 10D35
 Calzolari, C., 4F44
 Calzolari, S. G., 5G40
 Camaggi, C. M., 2D111
 Camail, M., 3H44
 Cambiaso, C. L., 12D186
 Cameron, D. G., 6J149, 11J69
 Camino, M. C., 3B81
 Camirand, A., 3D147
 Cammann, K., 4J76, 9J61
 Campana, J. E., 6J159
 Campanella, L., 11J106, 3D22, 6D43, 6E21
 Campanelli, C., 7D160
 Campbell, A. D., 12F24
 Campbell, A. K., 2D205, 2D206, 4D6, 4D285, 6D259
 Campbell, D., 9D55
 Campbell, D. J., 4D82
 Campbell, E. Y., 4B144
 Campbell, H. D., 8D192
 Campbell, J. A., 3C36, 8C44
 Campbell, J. L., 5J77, 9J79
 Campbell, L. D., 10D242
 Campbell, P., 10D253
 Campbell, R., 9D262
 Campbell, R. S., 2D76, 5D61
 Campbell, R. W. F., 12D91
 Campi, E., 2H31, 9C17, 11B87
 Campiglio, A., 9C11
 Canadas, S., 8D244
 Canali, S., 6D82
 Canella, M., 2E15
 Canellas, J., 4F50
 Canic, V., 3B20
 Cannata, A., 10J60
 Cannella, T., 9E30
 Cannon, G. D., 4D159
 Cano, J.-P., 8D40, 11D92, 12D96
 Cano Pavon, J. M., 2D47, 7B114, 8A5, 8B28
 Canova, N., 2D111
 Cantafora, A., 6D180, 9F44
 Cantagalli, P., 4F26
 Cantelli Forti, G., 12E16
 Canteloup, J., 5J131
 Caffin, R. N., 5J3
 Cantrall, C. J., 5J3
 Cantrell, J. S., 7C49
 Cantu, J. M., 6D292
 Cantwell, F. F., 4B36, 5E45
 Canzler, H., 5D211
 Cao, A., 12B117
 Cao, B., 8B31
 Cao, G., 9F15
 Cao, H., 3A7, 7H36
 Cao, J., 2G28
 Cao, K., 10D195
 Cao, S., 5B253, 8B31, 10B47
 Cao, Z., 5B249
 Capaccioli, T., 6C64
 Capaci, M. T., 1D51
 Capar, S. G., 4F33
 Capasso, R., 11G6
 Capel, B. J., 3J6
 Capitan Garcia, F., 3A6
 Caplan, P. J., 3J55
 Capodaglio, G., 11F32
 Capp, M. W., 2D183, 11D146
 Cappadona, R., 11J112
 Cappellini, L., 5D110
 Cappenberg, T. E., 9H72
 Cappello, A., 7H19
 Cappon, C. J., 12D51
 Caprez, A., 9F8
 Caprioli, R. M., 1D77, 5D144, 9D16, 10D165
 Caputi, A., jun., 4F73
 Caracciolo, M., 6D111
 Caradonna, P., 12D203
 Caramella Crespi, V., 2H43, 4H58
 Caramia, G., 11F20
 Carati, D., 9B128, 11B7
 Caravelli, G., 10D35
 Carayon, A., 7D182
 Carballido, A., 12F12, 12F22, 12F26
 Cardin, A. D., 6D264
 Cardone, M. J., 4A20, 4A21
 Cardoso, J. N., 8J53
 Carello, M., 4F56
 Carenini, A., 4D275
 Caress, E. A., 2E13
 Carey, P., 6D241
 Carignan, G., 8E86
 Carini, A., 6D232
 Cariou, T., 10F12
 Caritis, S. N., 9D76
 Carl, G., 9B178
 Carl, G. F., 4D94
 Carla, M., 10J131
 Carlberg, G. E., 2H52
 Carle, G. C., 6J75, 12J72
 Carlebom, P., 12D90
 Carlsen, L., 2J96
 Carlson, G. L., 8H36
 Carlson, G. M., 6J13
 Carlsson, L.-E., 4H11
 Carlucci, G., 12H90
 Carminatti, H., 2D128, 12B17
 Carmona, A., 1D203
 Carnegie, P. R., 12F16
 Carniello, M., 4H67
 Carnoy, A., 8H74
 Carnrick, G. R., 5D33, 9J92, 10B17
 Caroli, S., 5B237, 7J86, 8B83, 8B118, 11J91
 Caronia, J. P., 2D221

- Carpenter, B. S., 5B282
 Carpenter, K. H., 10D238
 Carpenter, R., 8H71
 Carpenter, R. L., 1J4
 Carr, E. C., 1D209
 Carr, J. W., 6J137
 Carr, M. J., 1D23
 Carr, P. W., 1J27, 6D238, 12J24
 Carr, R. S., 3D245
 Carr, S. M., 2E5
 Carracedo, A., 7D190
 Carrasco, J., 12B151
 Carrasco Dorrien, J. M., 10C36
 Carrea, G., 9D99, 9D145, 10D236
 Carrere, J., 8D248
 Carreri, D., 4F51
 Carrick, A., 11A26
 Carrico, J. P., 3J95, 5J136
 Carrion-Dominguez, J.-L., 7C77, 10C64
 Carroll, D. I., 3C1
 Carroll, F. T., 11D96
 Carroll, J., 2J74
 Carroll, L., 12J70
 Carson, F. W., 8H67
 Carson, K. A., 2H25
 Carson, L. J., 7J65
 Carson, P. E., 5D72
 Carson, S. W., 41D145
 Carter, C. A., 3J71
 Carter, J. A., 5D220
 Carter, J. R., 6C61
 Carter, N., 8D256
 Carter, N. G., 3D106, 8D56
 Carter, R. F., 8D18
 Carter, T. J. N., 3D6
 Carter, W. J., 1D117, 3J64
 Cartier, P. H., 9D120
 Cartoni, G. P., 5D150, 6D69
 Carugati, G. P., 5E24
 Carunchio, V., 11H72
 Caruso, J. A., 3B68, 5J104, 6J138, 7B17, 9C54, 12B15, 12J99
 Carusotto, S., 1J1
 Cary, E. E., 2G1
 Cary, P. L., 2D60, 6D74, 6D75
 Casadjicov, D., 3C71
 Casanova Z., D., 9D64
 Casas, J., 11D135
 Caselli, M., 1B134, 8H4, 12B138
 Casetta, B., 1B153
 Casey, H., 8H61
 Casey, P., 6H40
 Cashaw, J. L., 10D162
 Casiraghi, A., 1J105
 Casparie, T., 8D216
 Cass, A. E. G., 12J164
 Cassani, M., 1D41
 Cassiano, L., 12D203
 Cassidy, R. M., 1J120, 4J22, 12B70, 12B71
 Castagnetta, L., 8D140
 Castagnola, M., 12D203
 Castagnoli, M. N., 6D166
 Castaneda, F., 8A5
 Castegnar, M., 5H98B
 Castellani, G., 7E32
 Castelli, A., 6J21
 Castelli, M. G., 5D110
 Castelli, S., 9F29
 Castello, G., 6J98, 8H14
 Casterline, J. L., jun., 4F34
 Castineiras, M. J., 8J10
 Castle, G. S. P., 6J191
 Castle, J. E., 12J81
 Castle, L. W., 4J73, 6J88, 8J59
 Castle, M. D., 12D1
 Castracane, C. E., 12D186
 Castreillejo, Y., 2B57
 Castro, M. E., 12J125
 Casuccio, G. S., 11H1
 Catalano, M., 5F21
 Cate, J. C., IV, 9D10
 Cathcart, R., 5D133
 Cathelineau, L., 6D275
 Catignani, G. L., 6F50
 Caton, J. E., 2C50, 3H21, 5B280
 Cattani, A., 9D94
 Catterick, T., 7E19
 Catto, B. A., 2D105
 Caude, M., 9J21, 11A21
 Caudill, W. L., 5J36
 Caulcutt, R., 5A45B
 Causon, R. C., 6D61, 11D87
 Cavallaro, A., 4F51
 Cavalleri, A., 12D46
 Cavalli, P., 8J99
 Cavanagh, K., 5D250
 Cavazzutti, G., 4E9, 5E14, 10E35
 Cave, A., 3E5
 Cavrini, V., 3E30
 Cawood, M., 5D143
 Cazalet, C., 1A7
 Cazaux, J., 3B62
 Cazes, J., 4J84B
 Ceaucescu, E., 4C34
 Cecal, A., 3E29, 12B25
 Cecchi, L., 3J99
 Ceccon, L., 4F44
 Cedergren, A., 6J133
 Cefelin, P., 1C34
 Cejias, M. A., 12B92
 Cekan, S. Z., 7D145
 Cela Torrijos, R., 3F31, 3J47, 7F88, 8F59, 11A24
 Celenk, I., 11B157
 Celentano, F., 11J44
 Celis, H., 4D245
 Celler, W., 5C112
 Cellini, G., 7D83
 Cen, X., 9H56
 Ceng, Y., 4B76
 Centini, F., 6E6, 11E4
 Cepicka, J., 10F60
 Cera, O., 3H77
 Cerchio, M., 12J31
 Cerda, V., 7B112, 12B37
 Ceriotti, F., 12D148
 Cerna, E., 10F40
 Cerny, A., 8E14
 Cerny, I., 4B193, 9D53, 12B91
 Cerny, J., 6E8
 Cerny, O., 10C42
 Cerny, R. L., 5B21
 Cerqueira, M., 4F39
 Cert, A., 7D7
 Cerutti, G., 6F74
 Cervilla, M., 6C10
 Cesareo, R., 5D15
 Cesaroni, M. R., 1E42
 Cescon, P., 11F32
 Ceskys, B., 2D177
 Cesselin, F., 7D182
 Cessna, A., 9G20
 Cha, J., 10B31
 Chabenat, C., 6E31
 Chabert, E., 5H82
 Chabot, G. E., 2J49
 Chackraburty, D. M., 11B58
 Chadha, R. K., 7F56, 7F81
 Chadimova, D., 4F14
 Chadwick, V. S., 8D180
 Chae, Y. M., 6G13
 Chagas, A. P., 9F49
 Chagina, S. I., 6B141
 Chakchir, B. A., 8E89
 Chakrabarti, A. K., 4B167, 7B91
 Chakrabarti, C. L., 2J77
 Chakrabarti, J., 6F16, 6F80, 9F11, 9F55
 Chakrabarty, T., 9B42
 Chakraborty, D., 12H65
 Chakraborty, J., 10D58
 Chakraborty, P. P., 3J96
 Chakraborty, R. R., 4B167, 7B91
 Chakraborty, A. K., 4B171, 4B177
 Chakravarti, A. K., 9B42
 Chakravarti, R. N., 6E33
 Chalkin, V. A., 10B62
 Chalkova, G. K., 3B40
 Chalkiss, R. A. J., 8D253
 Chalmers, J., 4J135
 Chalmers, J. L., 3D58
 Chalignac, B., 9D34
 Chamberlain, W. J., 1D76
 Chambers, B., 5J64
 Chambers, J. Q., 10J130
 Chambers, R. E., 10D211
 Chambron, J., 3J73
 Champlin, P. B., 4J20
 Chan, A., 7H14
 Chan, A. W. K., 2D9
 Chan, C. C., 10B120
 Chan, C. K., 10D249
 Chan, D. W., 6D223, 9D18
 Chan, H. W.-S., 6D143, 7G5
 Chan, K. K., 7B145
 Chan, K.-M., 2D20, 12D75
 Chan, K. W. S., 1J89, 3J91
 Chan, K. Y., 11D93
 Chan, L., 7E15
 Chan, L. T. F., 3D87, 3D88
 Chan, S., 8D47
 Chan, S.-K., 10J95
 Chan, W. H., 4H51
 Chance, J. H., 1H3
 Chander, K., 11B55
 Chandler, H. M., 1D171, 6D59
 Chandra, N., 5C84, 7B12, 7B109
 Chandra, S., 5G7
 Chandran, C. V., 5F42
 Chandrasekaran, B., 2D108, 8D107
 Chandravanshi, B. S., 1B90, 5B179, 9G1, 12B66
 Chang, B. Y., 5D190
 Chang, C., 9D23
 Chang, C. A., 1J26, 7B131
 Chang, C. F., 6D188
 Chang, C. W., 4D307
 Chang, D., 7J66
 Chang, F.-C., 1J103, 2B44, 4B25, 4B96, 5B168, 6D195, 8B34, 8B43
 Chang, H. L., 2F23, 8F16, 10F11
 Chang, J. T., 9D162
 Chang, L.-F., 3B92, 6B150
 Chang, R. B., 11D108
 Chang, S. F., 8D74, 10D102
 Chang, S. S., 6F36
 Chang, T. M., 10D179, 12D176
 Chang, T. T., 8J51
 Chang, W., 5B158
 Chang, W.-C., 4D222
 Chang, W.-H., 3D99
 Chang, Y.-H., 3J100
 Chang-Yen, I., 12F7
 Chan Kim Tien, 5B262
 Chanysheva, T. A., 4A6, 4B31, 5B55, 5B135, 9B48, 9B50
 Chao, T. T., 6B61, 7B78, 7B121
 Chaouat, M., 12D199
 Chapital, D. C., 8C34
 Chaplanova, A. M., 1C42
 Chaplin, R. P., 10C5
 Chaplygin, V. I., 1B17, 3B26
 Chaplygina, N. I., 12B185
 Chapman, B. J., 6D297
 Chapman, D. V., 6D11
 Chapman, G. W., 6J101
 Chapman, M. G., 8D205
 Chapman, R. A., 3G22
 Chapman, T. C., 5B105
 Chapple, C. C. S., 10D131
 Charalambous, G., 11F43B, 11F44B, 11F45B
 Charbonneau, C. F., 4F37
 Charbonneau, F., 4D241
 Charest, R., 9D155
 Charles, B. G., 11D90
 Charlson, R. J., 7H40
 Charpenet, L., 3B67
 Charpentier, C., 3B67
 Charsley, E. L., 8J133
 Charvat, S., 7G31
 Charykov, A. K., 2A13, 3H32, 5B226
 Charyulu, M. M., 4B91
 Chasalov, F. I., 5D257
 Chase, D. S., 5J105, 12J100
 Chastang, F., 11D171
 Chateau-Gosselin, M., 7E13
 Chatelier, D., 1J65
 Chatfield, E. J., 11H6
 Chatt, A., 7B76
 Chatten, L. G., 3E31, 4E50, 7E21
 Chatterjee, A. B., 4B167, 7B91
 Chatterjee, K., 7D103
 Chatterjee, R., 7B158
 Chatterjee, S. B., 11B159
 Chatterji, D. C., 3D66, 6D71, 8D46, 8D81, 9D97
 Chatton, P., 9D14
 Chattopadhyay, A. K., 4C65
 Chattopadhyay, P., 1B143, 1B145, 5B245
 Chaturvedi, A. K., 7D37, 7D38
 Chaturvedi, G. K., 4B23
 Chau, A. S. Y., 2H3, 2H61, 7H69
 Chau, Y. K., 10H52
 Chaube, A., 2H68, 10H26, 11H43
 Chaudhary, M. S., 5F43
 Chaudhuri, G., 5D209
 Chaudhuri, N. K., 5B91
 Chauhan, S., 12G11
 Chauvel, Y., 5E26
 Chauvenet, B., 5J152
 Chauvet, A., 10E25
 Chavdarova, R., 5B266
 Chavez, M. A., 3E15
 Chavira, R., jun., 9D267
 Chawla, A. S., 7J107
 Chawla, K. L., 11B58
 Chawla, R. P., 2G24
 Chazaud, J., 7D180
 Checa Moreno, A., 3B60
 Checchini, L., 8H77
 Chechevichkin, V. N., 12J51
 Cheetham, N. W. H., 1D90
 Chekan, V. A., 6B12
 Chekhuta, O. M., 9C85
 Chelnokova, M. N., 6B4, 10B162, 11A10
 Chelton, C. F., 6H31
 Chemical Industries Association., 8H30
 Chemleeva, T. A., 1B8, 9B69
 Chen, A., 2D190, 7H38
 Chen, B., 5J95, 6B44
 Chen, C., 5B156
 Chen, C.-C., 6C9
 Chen, D., 2B61, 7B63, 9E29
 Chen, F., 2G27
 Chen, F. T., 5B231
 Chen, G., 2D8, 10B31
 Chen, H., 6J100, 9B24, 12B88
 Chen, H.-C., 3D208
 Chen, H.-H. Y., 2D149
 Chen, I. W., 1D82
 Chen, J., 3B28, 9D138, 9J136, 10J138, 12B115
 Chen, K., 5B53
 Chen, L., 3J34, 7B37, 8A3
 Chen, M., 4J7, 7B115, 10H87, 12J75
 Chen, M.-H., 2D181
 Chen, M.-L., 5D56, 11D105
 Chen, N., 5B212
 Chen, P.-Y., 8J103, 11B167
 Chen, S., 2D8, 8D87, 9B184, 10B123, 10D25
 Chen, S. G., 5B77, 8B47, 8B65
 Chen, S.-H., 1E32, 6B24
 Chen, S. S., 2D232
 Chen, S. S.-H., 2D149
 Chen, T., 5B201, 12D169
 Chen, T. I., 9J52
 Chen, W., 7E10
 Chen, X., 2B53, 2B69, 6B159, 6B159, 9B152, 9C42, 12E62
 Chen, Y., 5B201, 6B82, 9B24, 9C45, 9J71, 10B2, 12B88, 12B116
 Chen, Z., 3J53, 4B81, 6B80, 7H56, 9B67, 9J62, 12B116
 Chen, Z. Y., 4D140

- Cheng, A., 6J13
 Cheng, G., 8B49
 Cheng, J., 3B33, 9B44, 9D1
 Cheng, V. K., 12B105
 Cheng, W. C., 6J15, 6J16
 Cheng, Y., 9C5, 10B71
 Cheng, Y. S., 1J4
 Cheng, Z. B., 5C52
 Chepkunov, A. B., 2H4
 Cherednichenko, O. B., 10J79
 Cheremukhin, E. P., 5H78
 Cherepin, V. T., 9B91
 Cherevko, A. S., 5B55
 Cherezova, V. V., 10H20
 Cherkasskii, A. A., 10C35, 10C71
 Chernaya, A. V., 6H98
 Chernaya, N. V., 4B151, 9B143
 Chernogorenko, V. B., 10B98
 Chernogorova, Z. D., 6A14
 Chernomogets, N. F., 11H74
 Chernotkach, Z. A., 3B9
 Chernov, R. V., 10J3
 Chernova, R. K., 4B110, 5B138, 6B121
 Chernykh, O. A., 12H72
 Chernysheva, A. V., 11H48
 Chervina, L. V., 7C7
 Chervyakova, G. N., 11C76
 Chervinski, H. G., 3D181
 Chesarone, V. P., 6D191, 7D193, 9D215
 Chesler, R., 8D127
 Chesler, S. N., 7C13, 8C51
 Chesnokova, O. Ya., 10C72
 Chesnokova, S. A., 12B158
 Chester, T. L., 12C53
 Chestnykh, E. V., 6B2
 Chetty, K. V., 4B95
 Chetverikov, A. P., 4B94
 Cheuk, W. L., 9F28
 Cheung, L. K., 1D65
 Chevalier, M., 7D95
 Chevarier, A., 12J129, 12J133
 Chevarier, N., 12J129, 12J133
 Chew, B. P., 8D197
 Chey, W. Y., 10D179, 12D176
 Chi, H., 4J169, 11J137
 Chi, M.-Y., 5D220
 Chiabrandino, C., 6D166
 Chialva, F., 6F66
 Chian, E. S. K., 6H78
 Chiang, C. S., 6D15
 Chiang, G. H., 6F13
 Chiang, H.-C., 1E11
 Chiang, Y. C., 4H20
 Chiarugi, V., 7D126
 Chiavari, G., 3C29, 8G4, 9H67, 11H60
 Chiba, A., 9B127
 Chiba, K., 4D93, 7H60, 9F31, 9J104
 Chiba, Y., 10D213
 Chibisov, A. K., 4J86
 Chichaeva, V. I., 4B56
 Chichiro, V. E., 2E17, 9D39
 Chichiro, V. Yu., 3E50
 Chicinas, I., 4B83
 Chien, C.-C., 8B34
 Chien, C.-F., 7J63
 Chien, J. C. W., 2B91
 Chierice, G. O., 7B25
 Chiesa, M. R., 2D180
 Chikai, T., 4D201
 Chikhaoui, Y., 4D192
 Chikhladze, N. V., 12D16
 Chikryzova, E. G., 3B82
 Chikuma, M., 1B102, 11B106
 Chilvers, D. C., 10J47
 Chimenti, F., 5E14, 10E35
 Chin, H. B., 8F13
 Chin, K.-D. H., 7F79
 Chinchevich, V. I., 5H16, 9H17
 Chingakule, D. D. K., 7D186
 Chinn, D. M., 12D55
 Chino, T., 1B39
 Chiong, M. A., 8D218
 Chiou, W. L., 1D130, 5D56, 6D208, 11D105
 Chirkov, V. I., 2I64, 7B9
 Chistyakov, V. M., 11B65
 Chitale, V. K., 3B13
 Chitra, 6C19
 Chiu, K. S., 11G38
 Chizhikov, V. I., 11B141
 Chizhkov, V. P., 4J54, 9C2, 10J64
 Chkhietiani, N. A., 5B71
 Chmelik, J., 6J12
 Chmielarz, B., 5F55
 Chmielowski, J., 5B279
 Chmil, V. D., 11G24
 Chmilenko, F. A., 5B240
 Chmutova, M. K., 5B127, 8B62
 Cho, C., 2D6
 Cho, K., 12D243
 Chock, S. P., 10D193, 11D254
 Chojnacki, T., 3D98
 Chola, V. D., 2H4
 Chonan, T., 11F23
 Chong, P. C. S., 3D162
 Choporov, D. Ya., 7B107
 Chorem, M., 8D159
 Chorn, L. G., 7C57
 Chortyk, O. T., 2J50, 6J101
 Chou, C.-K., 4D222, 5D190
 Chou, M., 8C42
 Choudhary, R. P., 7B158
 Choudhury, A., 7C100
 Choudhury, S. S., 11B159
 Choudhury, V. N., 6B157
 Chovancova, J., 10B161, 10G21
 Chow, A., 2B7, 9B163, 9B171, 11B94, 12H91
 Chow, F. I., 6D285
 Chow, J. L., 2D29
 Chow, S.-T., 6E9
 Chow, T., 6D281
 Choy, P. C., 10D138
 Chretien, M., 3D159
 Christen, R., 11G18
 Christensen, D. A., 1F1
 Christensen, G. A., 6E64
 Christensen, L. H., 6C57
 Christensen, O., 1H38
 Christensen, S. B., 1F6
 Christian, G. D., 2D12, 4E42, 5B4, 5J81, 8J91, 8J123, 9J103, 10D30, 10D136, 12J12
 Christian, S. D., 1A8, 10A15
 Christiansen, A. L., 5E13
 Christiansen, C., 5D236, 11D152
 Christie, A. B., 2B5
 Christmann, K., 4C101
 Christofferson, J.-O., 10D32
 Christopoulos, T. K., 3E20
 Chriswell, C. D., 6H81
 Chrostowski, P. C., 6H70
 Chrzanowski, W., 7C41
 Chu, F. S., 10D111, 10G5
 Chu, S.-C., 7G20
 Chu, W.-T., 1B28, 1B132, 9B125
 Chu, X., 9E51
 Chuang, J.-Y., 2J28
 Chuang, L.-W., 6D156
 Chubenko, V. A., 4D98
 Chudasama, J. J., 9E52
 Chudhabuddhi, C., 2D122
 Chueva, A. K., 2E38
 Chuiko, V. T., 4B49, 5B240, 11H45
 Chukhrii, Yu. P., 8B88
 Chukin, G. D., 8C56
 Chulpanova, L. V., 6J86
 Chum, H. L., 3C64
 Chuma, J., 5D161
 Chumachenko, M. N., 2C3
 Chun, B.-G., 2D223
 Chung, C.-H., 5B141, 9B106, 12B122
 Chung, T. G., 6D280
 Chung, V., 1D62
 Chupakhin, M. S., 4B10, 4J144, 11J89
 Churacek, J., 3C19, 8C19, 12C71
 Churakova, T. I., 3B93
 Church, F. C., 6F50
 Churchill, F. C., 5D96
 Churchill, W. W., 9D162
 Churikova, I. M., 6B49
 Chvalovsky, V., 4F11
 Chvatal, I., 5C80
 Chwistek, M., 5B279
 Chylinski, A., 5B192
 Ci, Y., 5B158, 7B65
 Ciabatta, G., 11E44
 Ciardi, M., 6D69
 Cicciarra, F., 11D206
 Ciccioli, P., 6J36
 Ciclitira, P. J., 6F28
 Cidlowski, J. A., 11D188
 Ciereszko, A., 4D234
 Cieri, U. R., 2E14
 Ciesiolka, J., 4D280
 Cietek, D. J., 8C78
 Ciganek, M., 1B79
 Cighetti, G., 12D227
 Cilense, M., 8J121
 Cillard, J., 3D100, 12D221
 Cillard, P., 3D100, 12D221
 Cinotti, G. A., 3D273
 Ciobanu, D., 12B25
 Ciranni Signoretti, E., 10E35, 11F8
 Ciric, I., 10A11, 12A7
 Cisti, A., 6G21
 Ciszewska, W., 8B38
 Ciszewski, A., 5B149
 Citerio, L., 2E37
 Cittanova, N., 1D114
 Ciucanu, I., 8C14
 Cizmarik, J., 11E30
 Claas, K. E., 7C27
 Claas, M., 5F22
 Claessens, H. A., 2D89, 2J21, 8C77
 Claeys, A., 1B84
 Claeys, M., 2D135
 Clancy, R. M., 3D109
 Clare, D. J. M., 9C73
 Claridge, P. A., 4D292
 Clark, A. R., 6D53
 Clark, B. C., 1C21
 Clark, B. J., 6E52, 10J37
 Clark, C. R., 8E12
 Clark, D. A., 1D109
 Clark, D. R., 12D62
 Clark, E. R., 6B56, 7C3
 Clark, J. S., 2D40
 Clark, P. M. S., 1D7
 Clark, R. J. H., 1J95B
 Clark, R. V., 6D71
 Clark, W. D., 2E12
 Clarke, A. F., 12D90
 Clarke, D. W., 5D109
 Clarke, M., 4D308
 Clarke, P. G., 7G32
 Claustre, J., 12D155
 Clavel, J. P., 9D34
 Clay, K. L., 4J148
 Clay, L. C., 6D74, 6D75
 Clayton, C. G., 1B159, 1B160
 Clayton, E., 12A15
 Clayton, J. R., jun., 4D279
 Cleary, K. G., 12F34
 Clechet, P., 8H55
 Clegg, D. E., 1J120
 Cleij, P., 10J111
 Clemens, T. L., 12D220
 Clement, A., 2D137
 Clement, R. E., 7A20
 Clementi, S., 8D33
 Clements, H. M., 10D72
 Clemons, P. M., 1D82
 Cleon, P., 11C51
 Clerico, A., 10E14
 Clevenger, T. E., 11B158
 Climent Morato, M. D., 10C36
 Cline, J. D., 4H72
 Clinical Investigation of
 Duchenne Dystrophy Group,
 1D59
 Cloete, C., 5D177
 Clower, M., jun., 10F74
 Clozel, J. P., 9D84
 Cobb, P. H., 1J13
 Cobelli, L., 6J74
 Coblenz Society Spectral
 Evaluation Committee, Vapor
 Phase Subcommittee, 5J115
 Cocchiara, J. P., 3D84
 Coccioni, F., 5D150, 12C78
 Cochran, T. W., 5C41
 Cochran, R. A., 11C37
 Cockrum, P. A., 4E28
 Coddens, M. E., 7J53, 12J66
 Codet, G., 9C51
 Codony, R., 6D118
 Codony Salcedo, R., 5D93
 Cody, C. A., 6C61
 Coelho, J. A., 9F49
 Coelho, P. R. P., 2B42
 Coelho, R. G., 8F54
 Coenegracht, P. M. J., 4E35, 4E36
 Coetzee, C. J., 3J104
 Coftre, P., 9J1, 12J5
 Cognet, L., 10H71
 Cogswell, P. F., 5E61
 Cohen, A., 4D195, 12D150
 Cohen, A. C., 10D239
 Cohen, B. L., 5J158, 10H12
 Cohen, B. S., 1H6
 Cohen, C., 12J134
 Cohen, D. D., 12J142
 Cohen, D. J., 1D93, 6D163
 Cohen, E., 9F41
 Cohen, E. S., 5J158, 10H12
 Cohen, H., 10F38, 12D219
 Cohen, I. M., 4B124, 4D25, 11B82
 Cohen, K. A., 3D193, 7D180
 Cohen, M. J., 7D170
 Cohen, S. A., 10D254
 Cohn, S. H., 6D41, 10D41
 Cohn, S. M., 11D214
 Coin, S., 8J130
 Cojean, J., 1C11
 Cojocaru, M., 4C7
 Colart, P., 2F27
 Colbert, J. C., 6B124
 Cole, D. E. C., 9D173
 Cole, P. C., 5H58
 Cole, P. J., 12D125
 Cole, S. C., 6E64
 Cole, T. F., 5H94
 Cole, T. G., 11D212
 Cole, W. J., 5D142
 Coleman, S. R., 4H27
 Coleman, W. E., 5H73
 Coles, B. J., 7J87, 10B52
 Coletti, G., 6D270
 Colgan, S., 3J11
 Colin, H., 2C35, 3J26, 8J30, 12J32
 Colin, J. M., 7C52
 Colin, J. N., 5D67
 Colin, L., 10D84
 Colinet, E., 4A8, 5A16, 5G20, 6A2, 7A7, 9A15, 12B97
 Collard, R. S., 5C117
 Collet, P., 6F9
 Collet-Cassart, D., 1D168
 Coll Hellin, L., 7F13
 Collignon, A., 10D62
 Collignon, F., 10D55
 Collin, J.-C., 2F24
 Collin, P. J., 12C49
 Collins, J., 12J3
 Collins, K. D., 5C18
 Collins, M., 2H24
 Collins, M. G., 12F16
 Collins, W. P., 3D117, 4D182, 4D188, 12D193
 Colman, R. W., 8D114
 Colombi, A., 6D270, 10D35
 Colombini, M. P., 3A19, 6H74
 Colombo, L., 9D160
 Colombo, R., 7D83
 Colt, J. E., 5H38
 Colton, R. J., 1J90, 6J159

- Colussi, D., 2D73, 5D78
 Coluzza, C., 5B27
 Colwill, P., 2J130
 Comar, D., 9C13
 Comba, M. E., 9H69
 Combellas, C., 9J23
 Combs, K. J., 1D63
 Comellas Riera, L., 3F29
 Comet, F., 4E52
 Commens, M. J., 7D246
 Commission of the European Communities, 7C83
 Comtat, M., 10C14
 Conacher, H. B. S., 7F56, 7F81
 Concheiro, L., 7D190
 Concialini, V., 3C29, 8G4, 9H67
 Conder, J. R., 3J67, 6J99
 Cone, E. J., 2D52
 Confer, R. G., 6H31
 Cong, H., 11D11
 Coninx, P., 9D94
 Conkerton, E. J., 8C34
 Conlan, L. A., 12D73
 Conley, D. L., 1E18
 Conley, H., 12J178
 Conn, R. B., 9D10
 Conner, J. G., 1J140
 Connett, B. E., 2E9
 Connick, W. J., jun., 11G26
 Connor, S., 12D106
 Conrad, V. B., 3J64, 11J100
 Conrady, M. R., 10D22
 Conroy, J. M., 4D251, 11D197
 Consigli, R. A., 3D179
 Constantinescu, S., 12C52
 Constantinescu, T., 4E49
 Constantinescu, V., 3C71
 Constantinidis, I., 10C63
 Conteh, B., 6D290
 Conti, A., 7D184
 Conti, M., 6D258
 Contreras Lopez, A., 3C48
 Conway, J. G., 7J78
 Conway, W. D., 9J12, 9J13, 12J17
 Conzemius, R. J., 12B21
 Cook, A. M., 1H41
 Cook, B. J., 1C21
 Cook, G. A., 1D98
 Cook, J. G. H., 8D207
 Cook, K. D., 1J89, 3J91
 Cook, R. F., 6G33
 Cook, R. R., 12D243
 Cook, S., 9J93
 Cook, S. J., 4D191
 Cooke, M., 1H31, 2D48, 7J56, 11D99
 Cooke, P. R., 1D91
 Cooke, R. J., 11G3
 Cookman, J. R., 11D47
 Cooks, R. G., 3E7, 5J127, 7J108, 9J115
 Cookson, J. A., 5J77, 9J79
 Coombes, E. J., 1D176, 9D41
 Coombes, R. C., 7D88
 Coombes, R. J., 8E34
 Coombs, J. R., 4G25
 Cooper, A. R., 2J28
 Cooper, C., 10F16
 Cooper, C. S., 8D111
 Cooper, D. A., 12E8
 Cooper, E. H., 3D201, 4D239, 12D232
 Cooper, G., 9D262
 Cooper, G. J. S., 1D32
 Cooper, J. D. H., 10D167, 10D168, 12D173
 Cooper, J. K., 1D42, 6D91, 9D66
 Cooper, J. R., 4D50
 Cooper, K. M., 3D210
 Cooper, P. J., 10J104
 Cooper, S., 2H19
 Cooper, T. W., 8D250
 Cooper, W. J., 6H73
 Cooperman, B. S., 3D188
 Cope, M. J., 2J82, 9J102
 Copeland, K. F. T., 4D82
 Copia, G., 12J5
 Copland, J. W., 4F28
 Coppi, G., 5E24, 8E31
 Coppi, S., 3H2
 Coppola, E. D., 9F40
 Coquille, R., 12B186
 Corbett, J. T., 10D124
 Corcoran, C. A., 8D171
 Cordell, G. A., 10E16
 Cordes, G., 12E36
 Cordon, C., 6G22
 Cordonnier, J., 3D57
 Corey, M. D., 12H37
 Cork, D. J., 4D328
 Corkidi, G., 5J145
 Cormack, W., 2J74
 Corn, M., 9H2
 Cornelissen, P. J. H., 2D213
 Cornelius, M. J., 3A5
 Cornell, F. N., 1D66
 Cornell, N. W., 4D137
 Corominas, L. F., 4G16
 Corona, G. L., 6D100
 Corpet, D. E., 3D41
 Corradi, C., 4F21
 Corradini, C., 11C21
 Corrado, E., 11G6
 Corrado, T., 5J26
 Corrao, P. A., 2F15
 Corrigan, J. J., 12D26
 Corsini, A., 7H14
 Cort, W. M., 6G17
 Cortas, N. K., 12D34
 Cortes, A., 8F13
 Cortes, H. J., 1J30, 2J14
 Cortese, M., 4D130
 Cortesi, N., 2F40
 Corti, P., 12D79, 12E60
 Cory, J. G., 8D231
 Corzett, M., 11D200
 Cosack, E., 7B133
 Co-Sarno, M. E., 3D194
 Cosofret, V. V., 2J115
 Cossack, Z. T., 6D34
 Cossu, G., 5B199, 12D208
 Costa, J. F., 5E34
 Costa, R., 10D86
 Costantini, S., 2D15
 Costello, R. J., 1H11, 5H6
 Costongs, G. M. P. J., 11D65
 Cottonat, J., 8D57
 Cotrufo, R., 6D260
 Cotter, J., 5C90
 Cottenie, A., 12G2
 Cotter, R., 12J46
 Cotter, R. J., 3J92, 4J152, 5J128, 10J114, 12J120
 Cottini, F., 12D148
 Cotton, D. B., 10D137, 12D134
 Cottrell, D. B., 6H94
 Cottrell, R. C., 2D133
 Coughlin, J., 10D2
 Coulet, M., 9D49
 Coulet, P. R., 2D151, 2D229, 3J109, 12J163
 Couston, G. H. M., 4D287
 Coupek, J., 10J21
 Couperwhite, I., 1D90
 Couri, D., 3D165
 Courneya, W. J., 10H18
 Courtney, N. G., 7C18
 Courtois, P., 10D106
 Courtot-Coupez, J., 5H69
 Cousins, D. R., 9C87
 Couso, R. O., 2D128
 Coutts, G., 3G4
 Coutts, R. T., 8D97
 Cova, D., 7D83
 Covey, P. C., 8D95
 Covington, A. K., 4A7, 6H55, 7J125, 8D18, 9J124
 Cowan, A. A., 6H2
 Cowan, T., 4D255
 Cowen, P., 4D223
 Cowie, G. L., 12D115
 Cowie, J. R., 2D198
 Cowley, D. M., 6D250
 Cowling, R. A., 10J55
 Cox, A. G., 10D20
 Cox, E. A., 12F8
 Cox, G. S., 9G13
 Cox, J. A., 5B198, 7J5, 12H52, 12J160
 Cox, J. C., 6D59
 Cox, J. W., 12D103
 Coxon, D. T., 6D143, 10C23
 Coyle, J. D., 12D72
 Coyle, J. T., 6D223
 Coyne, R. V., 12D61
 Coy-Yll, R., 3B24
 Crabbe, M. J. C., 12D114
 Crabi, G., 1B60
 Cragg, G. M., 9D6
 Crain, P. F., 3D235
 Cramer, J. A., 1D49
 Cramer-Knijenburg, G., 4D261
 Cramers, C. A., 2J21, 4D207, 6C1, 6J69, 6J91, 12H78, 12J65
 Crane, L. J., 8D186, 10J32
 Crastes de Paulet, A., 4D176, 4D192, 7D144
 Craveiro, A. A., 6F82
 Crawford, R. W., 12B174
 Crawhall, J. C., 4D288
 Crecelius, E. A., 8H52, 8H53
 Cremers, D. A., 3H18, 3J79
 Cremonesi, P., 9D99
 Crescentini, G., 4H34, 7H19
 Cresceri, L., 6D160
 Cress, E. A., 4D168
 Cresser, M. S., 2B31, 7J116B, 10B172, 12J89
 Creus, J. M., 12F35
 Crews, T., 8D44
 Crick, I., 2H69
 Cridland, J. S., 4J52
 Crim, D., 12C76
 Crimes, A. A., 1D36
 Crippin, P. J., 11D129
 Cripps, G. C., 6C46
 Crispin, T., 11C43
 Critcher, E. C., 7D164
 Critchley, R., 4H15
 Croft, K. D., 2D141
 Crolla, T., 2E37
 Crombeen, J. P., 7J30, 10J33
 Cronauer, D. C., 7C62, 11C53
 Cronin, D. A., 3J55
 Cronn, D. R., 6H30
 Crooks, P. A., 8D155, 11D45
 Cros, S. A., 10J19
 Crouch, D. J., 11D43, 12D55
 Crouch, S. R., 1J68, 12J103
 Crouch, T. H., 4J10
 Croud, V. B., 6C48
 Crow, F. W., 2D146, 9C69
 Crowell, J. M., 11G14
 Crowley, R. J., 3D87, 3D88
 Crowley, S. C., 3D200
 Crowley, S. J., 1J53, 9J59
 Crowther, J. B., 2D221, 7D220, 10J29, 11J36
 Croxson, M. S., 1D32
 Crumb, J., 2D199
 Crummett, W. B., 4H4
 Cruz, S. G., 3D84
 Cryberg, R. L., 11C3
 Csanadi, J., 3D279
 Csarnyi, A. H., 10D235
 Cserfalvi, T., 4J175
 Cserhalmi, Z. O., 4F59
 Cserhati, T., 2J51, 4J51, 10C25, 10J62, 12E38
 Csiba, A., 5D53
 Csikai, N. J., 4H79
 Cucchi, M. L., 6D100
 Cuciureanu, R., 4E43, 4E45, 8E59
 Cuddy, K. K., 6J29
 Cuer, J. F., 4D202
 Cui, C., 6B17, 9H45
 Cui, H., 12J159
 Cui, M. Z., 4D140
 Cui, W., 8B14, 9B68, 12B54
 Cui, Y., 6B79
 Cui, Z., 7B124
 Cuisinaud, G., 6D87
 Culbertson, C. R., 4J79
 Culbreth, P. H., 12D137
 Culea, M., 8C30
 Culler, S. R., 8B137
 Culshaw, S., 12C53
 Cumming, J. B., 4B102
 Cummings, E., 1D23, 11D11
 Cummings, K. C., 10D67
 Cummings, P. M., 10H89
 Cummings, R. G., 2D217
 Cummins, P. G., 2J128
 Cundy, K. C., 8D155, 11D45
 Cunico, R. L., 3D142
 Cunningham, F. G., 7D49
 Cunningham, L., 9J138
 Cunningham, W. C., 8F65
 Curl, C. L., 5F41
 Curle, P. F., 6D206
 Currow, D. H., 4D276
 Curran, D. J., 12J40
 Curran, F. M., 1J68
 Curran, J. R., 9C20
 Curran, N. M., 5E35
 Curran, P. J., 4G1
 Curro, P., 8C67
 Curry, K. A., 2F15
 Curry, K. K., 4F10
 Curtis, M. A., 9D122
 Curtius, A. J., 1B151
 Curvers, J., 6C1, 12H78
 Curzio, O. A., 10F34
 Cusick, P. E., 8D136
 Cuscia, A. J., 10F63
 Cutler, D. J., 3J84
 Cvak, Z., 6F2, 7F2
 Cvjetanin, D., 10B65, 10B141
 Cvjetanin, N., 10B65, 10B141
 Cwiek, K., 2F11, 5F11
 Cyganski, A., 2B10, 2D41, 5D28
 Czajkowska, T., 2C44, 2C45
 Czanderna, A. W., 7J13B
 Czapski, J., 2F37
 Czech, A., 9B14
 Czech, B., 3C41, 9B14
 Czech, N., 3J75, 11B116
 Czegeny, I., 11H40
 Czerepek, K., 5B264
 Czerwiecki, L., 2G5
 Czerwinski, W., 2C53, 5C68, 5C100, 10C31, 10C32
 Czichocki, G., 5C85, 7C72
 Czichocki, C.-D., 2C42, 2C43
 Da, S. L., 3D126
 Daban, J.-R., 11D203
 Dabek, J. T., 12D45
 Dabrio, M. V., 10F64
 Dabrowski, A. J., 6J114, 6J169, 6J172
 Dabrowski, K. J., 9G10
 DaCol, P., 1D179
 DaCunha, A. R., 10F14
 DaCung Do, 12C50
 Dadgar, D., 2H1
 Daehling, P., 4C66, 5C87
 Daehne, C., 10D210
 Daehre, K.-H., 10C81
 Daffron, C. R., 12H37
 Daft, J. L., 4F9, 12G14
 Daftsiros, A. C., 8D63
 Dagless, E. L., 6J15, 6J16
 D'Agostino, G., 8D140
 Dagrosa, E. E., 6D99
 Dahale, N. D., 11B58
 Daharu, P. A., 9F20
 Dahl, I. I., 10D182
 Dahl, J., 7D211
 Dahlbacka, J., 5D36
 Dahle, H. K., 5F13
 Dahlquist, I., 9C15
 Dahlstrom, G., 4D79
 Dahms, A., 7B52
 Dai, C., 5C67
 Dai, M., 9A12
 Daigneault, G. R., 5B31
 Daishima, S., 8G11, 8H33, 9C52
 Dakhnov, P. P., 2C24
 Dakubu, S., 10D8, 11D2
 Dal Bo, L., 2D87

- Daldrup, T., 9J24
 Dale, I. M., 5B81
 Dalene, M., 5C49
 Dalggaard, L., 2D127, 9D90, 9D259
 Dalidovich, L. V., 7G18
 Dallner, G., 3D98
 Dally, K. A., 2H23
 Dalmases, P., 12J19
 Dal Pozzo, F., 4A7
 Dalrymple, P. N., 2D203
 Dalterio, R. A., 2C29, 12C26
 Dalton, J. G., 12D63
 Dalton, T. K., 8D147
 Daly, J. G., 6D230
 Dalziel, J. A. W., 6H71
 D'Amato, A., 6C47
 D'Amato, G., 6J98
 Damawandi, E., 7F23
 D'Ambrosio, R., 10D93
 Damgaard, S. E., 7D117
 Damiani, P., 6F12, 7C34
 Damianova, L., 9D228
 D'Amico, A., 5B27, 8J7
 Damjantschitsch, H., 12B29
 Damkjaer-Nielsen, M., 7D149, 7D149
 Damodaran, C., 5C48
 Damokos, T., 7B42
 D'Amour, P., 9C90
 Darnrell, D. J., 11H17, 12H26
 Dams, R., 1B130, 5H20, 7A6, 7B123, 8B121
 Dan, P., 1D82
 Dana, J., 12B156
 Dancikova, R., 6B60
 Dandeneau, R. D., 6J89
 Daneman, D., 10D230
 Dang, G. S., 9C47
 Dang, N. D. P., 6F6
 Daniel, A., 1D106
 Daniels, D. H., 2F36
 Danielson, N. D., 3J21, 11B86
 Danielsson, B., 7J132, 10E19
 Danielsson, L.-G., 5H43, 10B11
 Danielsson, R., 5J185, 10J25, 12A17
 Danigel, H., 3J94
 Danikell, R. K., 12C24
 Danilkin, V. A., 1B5
 Danilov, S. D., 10C69
 Danilova, M. Ya., 4C27
 Danison, T. H., 3C59
 Dankers, N., 8H76
 Dannecker, W., 3H27, 6H10, 6H12
 Danzaki, Y., 1B91, 4B202
 Danzer, J., 8J126
 Daolio, S., 9J116, 11J111
 Dardenne, C., 11B71
 Dare-Edwards, M. P., 10J109
 Darimont, T., 3H29
 Darker, D., 1B7
 Daroczy, J., 11C35
 D'Arrigo, V., 6F39
 Darwin, W. D., 2D52
 Das, A. K., 1B144, 6B166
 Das, B. K., 6B154
 Das, H. A., 2D39, 6D39
 Das, H. R., 3B19
 Das, H. S., 4B34
 Das, J., 1B139, 1B144, 6B166
 Das, N. R., 5B161
 D'Ascenzo, G., 3D22
 Dasgupta, P. K., 6H24, 8J41, 8J42, 11H15, 12B4
 Dasgupta, S., 5B60, 7B15
 Das Gupta, V., 2E25, 8E27, 8E36, 8E43
 Date, A. R., 2J98, 4J153
 Date, C., 4F6
 Datsenko, I. I., 8H22
 Datsun, L. B., 7D35
 Datta, S. C., 8D169
 Dattner, S. L., 11H1
 Daudon, M., 7D14
 Daugherty, C. E., 2F3
 Daun, J. K., 5G3
 Dauphin, A., 3D33
 Davankov, V. A., 3D140, 6D218
 Davenport, F. F., 8B10
 Davenport, J. N., 3H75
 Davey, D. D., 2D196, 6D262
 Davey, J. F., 6D250
 Davey, P. A., 3D267
 David, F., 6J94
 David, M. B., 4H48
 David, P., 6J15, 6J16
 David, R. M., 12D52
 Davidek, J., 4F57
 Davidova, V. O., 3E24
 Davidow, B., 2D211
 Davidson, A. G., 7E7, 9E36, 10E3
 Davidson, D. C., 2D5, 12D213
 Davidson, G. P., 6D26, 10D150
 Davidson, R. G., 8C87
 Davidson, S. M., 4D153, 4F48
 Davies, A. G., 6D304
 Davies, A. M. C., 8J45, 12J111
 Davies, B. M., 7D71
 Davies, C. L., 2D97, 8D153
 Davies, D., 5D111
 Davies, D. S., 11D87
 Davies, G. J., 2B50
 Davies, J. A., 10J98, 12J134, 12J144
 Davies, N. W., 8D88
 Davies, P., 6D215
 Davies, S. G., 12A20
 Davies, S. N., 1D220
 Davies, T. F., 9D213
 Davies, T. J., 12D162
 D'Avila, L. A., 2C35
 Davis, A. B., 7F34
 Davis, A. T., 11D174
 Davis, C. M., 8D52
 Davis, C. O., 9H71
 Davis, D. R., 9D205
 Davis, D. V., 3E7
 Davis, E. G., 6F68
 Davis, G., 12J164
 Davis, H. M., 10C66
 Davis, J. M., 8D148
 Davis, J. W., 10D12, 10D13
 Davis, K. L., 7D161, 8D64
 Davis, K. M., 1J96
 Davis, L. E., 4D114
 Davis, P. H., 7F63
 Davis, P. J., 8D68
 Davis, R. E., 4D276
 Davis, S. J., 3D46, 6D56
 Davis, T. P., 2D190
 Davis, V. E., 10D162
 Davison, W., 4H65, 6H55
 Davydov, M. G., 5J141, 10J120
 Davydov, V. D., 4C40
 Davydov, V. Ya., 7D140
 Davydova, S. L., 7B46, 7C7
 Dawczynski, H., 3D15, 3D17
 Dawes, E. F., 12F40
 Dawidowicz, A. L., 2J15, 2J27, 3J19, 6J34
 Dawkins, S. J., 8D2
 Dawney, A., 3D203, 8D203
 Dawra, R. K., 11D193
 Dawson, A. G., 3D54
 Dawson, J. B., 10J47
 Dawson, P. H., 7J110
 Dawson, P. J. G., 4D326
 Dawson, V. K., 10H86
 Dawczynski, H., 5D38
 Day, M., 11C68
 Day, R. J., 1G9
 Day, R. O., 8D49
 Day, R. W., 10J130
 Dayal, V., 8D114
 Daymond, J., 10J109
 Dazhina, L. G., 5B244
 De, A. K., 4B65
 De, S., 8E82
 Deadman, N. M., 9D190
 Deak, M., 8E40
 Dean, K. J., 1D48
 Dean, P. D. G., 4J149
 De Andrade, J. C., 4B69, 12B124
 De Andrade, J. F., 7B25
 De Andreis, R., 4F80
 De Andres, V., 3G11
 Deane, P. G., 4B75
 De Angelis, G., 3D22
 De Angelis, M., 8H43
 DeAngelis, N. J., 3C16, 6E37
 Deans, D. R., 6J15, 6J16, 12J56
 DeArmas, W., 12D187
 Deaton, T., 9H35
 De Azevedo, F. G., 10G12
 Deb, K. K., 10B110
 Debackere, M., 2D49, 7D46
 Debelmas, O., 2E54
 De Benzo, Z. A., 4B192
 De Bernardi, M., 8E19
 Debertin, K., 2J105
 Debets, H. J. G., 2J7, 5A32
 De Bievre, P., 2J100, 6B64
 De Blas, A. L., 3D181
 De Boer-Van den Berg, M. A. G., 11D204
 De Boever, J., 7D142
 De Boos, A. G., 7C89
 De Bortoli, M., 6J83
 Debowski, J., 7C37, 10C40
 De Brackeleire, C., 9F48
 Debras, G., 3B111
 Debroux, C., 7D242
 De Bruijn, A. M., 10D141
 De Bruijn, E. A., 6D121, 7D89, 8D42
 De Bruin, M., 9J119
 De Bruijn, H., 10B173
 Debrun, J. L., 12B186
 Debruyne, I., 3D178
 De Bruyne, M. M. A., 5D43, 9E32
 Debry, G., 6D231
 Debbs, W., 4E19
 Debska-Horecka, A., 5B175
 DeBuysere, M. S., 4D281
 De Carli, B., 3J111
 De Casseres, K. E., 12H83
 De Cesare, K. B., 6H24
 De Cherchi, M. L., 4C12
 Decker, K., 3D233
 Decker, M. T., 9H6
 Declercq, B., 8G3
 Decnop-Weever, L. G., 2A9
 Deconinck, I., 6D32
 Deconinck, G., 12B23
 De Corte, F., 2J100, 5B146, 8J115, 10J119, 11J118
 DeCresce, R., 10J10
 Decristoforo, G., 10E19
 De Croo, F., 11E56
 Decsei, L., 5E12
 Dedegkaev, T. T., 4J96
 Dedek, W., 5G18
 Dedkov, Yu. M., 9B167, 9B172
 De Doncker, K., 5H20
 Deeg, R., 4D177, 12D205
 Degee, A., 7J25, 11C6, 11J15
 Deesen, P. E., 10D74
 Deeth, H. C., 10F36
 De Felice, M., 5F21
 Defner-Hallowell, A., 3H65
 De Galan, L., 2E7, 2J76, 4J126, 7C36, 8J22, 9J89, 9J97, 10E8, 10J93, 11D198
 Degelaen, J., 2F27
 Degre, J. P., 11B73
 De Groot, G., 12D28
 De Groot, H. J., 9D26
 De Groote, R. A. M. C., 10J67
 Degtyareva, L. V., 9C61
 Deguchi, M., 5B78
 Deguchi, T., 2B3
 De Gyves, J., 5B114
 De Haan, J. W., 2J21
 De Haas, E. J. M., 9D26
 DeHaas Vermeulen, J., 11D78
 De Haseth, J. A., 5A31, 6J59
 Dehnke, W., 5B82
 Deiana, S., 4C12
 Deinzer, M. L., 1G19, 1G20
 Deister, H., 4H50
 De Jager, L., 5D177
 DeJarlais, W. J., 2F43
 De Jong, A. P. J. M., 2D131, 4D207
 De Jong, C., 6D171
 De Jong, E. B. M., 6D204
 De Jong, G. J., 11J31
 De Jong, H. G., 4J36, 7J138
 De Jong, I. G., 11B33, 11H39
 De Jong, J., 5D163, 7D163
 De Jong, P., 2D37
 De Jong, P. A., 2D213
 De Jong, T., 12G9
 DeJonge, J. O., 8C80
 De Jonghe, W. R. A., 2H65
 De Kempny, R. S. G., 7D32
 De Keyser, R., 3D57
 Dekhovich, E. I., 7B41
 Dekker, C. A., 8D238
 De Kleijn, J. F., 10F31
 De Kok, A., 9G21, 12G9
 Delaage, M., 10D130
 Del'Acqua, A., 4F39
 De Laeter, J. R., 5A17, 11J110
 De la Guardia Cirugeda, M., 5A28, 5B75, 5B177, 6C42, 7C60, 7C77, 10C64, 11D17
 Delahaye, P., 2C77, 4F71
 Delamore, I. W., 10D212
 Delaney, M. F., 1D63, 5J114, 8E70, 9E35, 9J28
 De la Piedra, C., 4D291
 De Lappe, B. W., 6H80
 De las Mercedes Amartino, M., 1F15
 Delaveau, J., 10F62
 Delbeke, D., 2D155
 Delbeke, F. T., 2D49, 7D46
 Delcourt, J., 11H23
 Del Delumyea, R., 5H18
 De Leenheer, A. P., 1D194, 5D152, 6D184
 DeLeon, I. R., 3D84
 Delfanti, R., 5D35, 9A13
 Delfino, G., 6D260
 Delgado, L. N., 11F15
 De Ligny, C. L., 8J39
 De Lima, A., 6F54
 De Lima, C. G., 10G15
 Dellacherie, E., 6E28
 Della Negra, S., 12J124
 Delliou, D., 3D88
 Dell'Utri, A., 11F8
 Delmas, D., 7D114
 Delmas, R., 5J140
 Delmas, R. J., 8H43
 Delmont, J., 12D96
 Delmotte, Y. A., 1D101, 2D109, 5D74, 11D128
 Del Nozal Nalda, M. J., 12F23
 Deloge, A., 1C11
 De Loos-Vollebregt, M. T. C., 2J76, 9J97, 10J93
 Delort, A. M., 9D233
 Deloye, F.-X., 1J65
 Deltour, G., 9D94
 DeLuca, M., 3D123, 7D189, 9D150
 DeLuca, A. J., II, 11F12
 Delvigne, C., 6D32
 Del Vo, A., 9F29
 Demacker, P. N. M., 6D182
 Demakhin, A. G., 1B110
 Demarest, B. O., 3C68
 Demarin, V. T., 10B99
 De Martelaere, J.-M. C. J. G., 7F74
 De Martino, A., 3D273
 Dembinski, B., 1E26, 5B256
 Demedts, P., 7J58
 Dement'eva, N. N., 8E3
 Demeny, D., 10B146, 10B151

- Demers, L. M., 1D123, 8D124
 Demetrescu, S., 4B83
 Demetriades, M., 10D12
 Demian, B., 9H26, 9H27, 12H33
 Demidov, V. V., 10D231
 Demidova, M. G., 11B107
 Demin, S. V., 8C45, 8C46
 Demin, Yu. V., 6A16, 6B106
 Demina, L. A., 6B3, 7J120
 Deming, S. N., 5C4
 Demirgian, J. C., 11J48
 Demko, P. R., 11H44
 Deml, M., 3H37
 De Moerloose, P., 5E50, 11E56
 De Moor, H. M., 12H26
 De Moor, P., 10D198
 De Mora, S. J., 3H33, 5H55
 De Moreno, M. R., 9C6
 Demortier, G., 3B111, 9B33, 9J77
 Demura, R., 3F3
 Dem'yanova, T. A., 5B120
 De Nayer, P., 7D242
 DenBleyker, K. T., 3B11
 Den Boef, G., 5A6, 5H59
 Dench, W. A., 1J85
 Denchev, S., 7A9
 Denecke, B., 5H9
 Denell, R. E., 3D179
 Deng, R., 9E38
 Den Hartigh, J., 11D59
 De Nijs, R. C. M., 6J90
 Denisenko, S. F., 11B30
 Denisenko, V. P., 3E50
 Denney, R. C., 5J54, 8A2
 Dennis, M., 3D159
 Dennis, M. J., 6F10, 10F3
 Dennis, P., 1D169
 Dennis, R., 12E12
 Dennis, W., 8D206
 Denny, P. A., 3D209
 Denny, P. C., 3D209
 Denoyer, E., 2B89, 10H5
 Den Tandt, W. R., 9D273
 Denton, J., 9D27
 Deobagkar, D. N., 1D193
 De Oliveira, E., 6H62
 De Oliveira, W. A., 7C16, 8J11, 10G12
 Deotale, M. Y., 4G18
 DePaolis, A., 3E18
 De Parade, D., 11G20
 Department of the Environment (UK), 10H44
 Department of the Environment & National Water Council (UK), 1H35, 2H44, 2H56, 2H66, 5G9, 5H68, 6C33, 6H90, 10H41, 10H64, 10H92
 De Pasquale, A., 12E19
 De Pauw, E., 6J160
 De Ponte, G., 9D160
 De Potter, W. P., 2D135
 Deppermann, K. L., 6J53
 De Queiroz, R. R. U., 10A9
 Derbaremdiker, P. Z., 2C65
 Derbesy, M., 5C89, 10F18
 Derbyshire, R., 9D233
 Derde, M. P., 5A30
 Derdelinckx, G., 10F59
 Derendorf, H., 2D72
 De Repentigny, L., 6D145
 Derfler, K., 10D174
 Derfler, S., 8D202
 De Rijke, D., 1D225
 Dermelj, M., 5C66, 9F4
 Dermott, K., 11D184
 De Roose, J., 1D194
 Derouane, E. G., 3B111
 De Rouffignac, C., 6D3
 De Ruiter, C., 4D128
 Deruy, G., 4F16, 9F19
 Desaga, U., 9D197
 Desage, M., 1E20
 Desager, J. P., 4D127, 10D143
 Desai, C. M., 4B39
 Desai, G., 11D201
 Desai, G. C., 10B29
 Desai, K. K., 4B175, 10B136
 Desai, K. R., 4B43, 4C86
 Desai, P. K., 11D201
 De Saint Blanquat, G., 7D116
 De Salvo, A., 11F8
 De Sanctis, A., 6D124
 De Santis, F., 11H13
 Desaulniers, J. A. H., 4A9
 Desbene, P.-L., 10C54
 Deschamps, M., 6D124
 Deschamps, N., 11B71
 De Schepper, D., 1J46, 6J71
 De Schepper, H., 12H80
 De Schutter, J., 11E56
 Descoms, B., 4D192, 7D144
 Desforges, C., 5C111
 Deshmukh, B. K., 4B16, 4B153, 4B172, 5B214, 10B138
 Deshmukh, P. P., 2D190
 Deshpande, A., 4D242
 Deshpande, C. M., 2G17
 Deshpande, D. S., 10E32
 Deshpande, V. V., 3D8
 Desideri, P. G., 2D186, 4D219, 8H77, 12D145
 Desiderio, D. M., 1D149, 3D166, 4D233, 11D181
 Desikan, N. R., 1B20, 9B153
 De Silva, J. A. F., 2D77, 4D123, 7D36, 7D41
 Desimoni, E., 10B94, 11D106
 Desjardins, P. R. E., 12D63
 Desjardins, R., 11D87
 Deslattes, R. D., 1J78
 De Slypere, J.-P. M., 5D152
 Desmet, N., 2D49
 Desnick, R. J., 9D258
 Desotelle, G. A., 10D166
 Despres, M., 2B48
 Dessalles, M. C., 1D53
 Dessi, A., 4C12
 Dessy, R. E., 12J14
 D'Este, G., 9J8
 Detaevernier, M. R., 5A30, 8E2
 Detavernier, R., 4F16, 9F19
 Deturmeny, E., 12D96
 Deufel, T., 7D245
 Deutsche Gesellschaft fuer Fettforschung., 2G11
 Deutschmann, P., 5D168
 Devai, A., 4J51
 DeVane, C. L., 10D82
 Devgun, M. S., 1D24
 Devienne, F. M., 2J92
 De Villiers, L. S., 1D178
 Devine, C. S., 11D214
 Devine, J. E., 9D257
 Devleeschouwer, M. J., 1J107, 10J145, 11J135
 DeVoe, J. R., 4D23, 12B9
 De Voogt, P., 11C65
 Devoy, J., 6D283
 Devreux, A., 9F48
 De Vries, G., 3J44, 3J46
 De Vries, J., 4D128
 DeVries, J. W., 2F23, 7F17, 8F16, 10F11
 De Vries, J. X., 6D129
 De Vries, K., 2D171
 Devyat'yarov, A. Yu., 10C3
 De Waard, P., 3D114
 Dewaele, C., 7J27, 8F56, 9J25
 De Waele, J. K., 7B141
 Dewald, H. D., 3E17, 5J10, 10J40, 10J148, 11J9
 De Wispelaere, A., 5B146, 8J115, 11J118
 De Wolff, F. A., 9D26
 Deyrup, C. L., 11G27
 De Zaiacom, T., 10J150
 Dezaro, D. D., 10J29
 De Zeeuw, J., 6J90
 De Zeeuw, R. A., 2D61, 2E35, 3D12, 3D75, 8D55, 11D33, 11D95, 11J16
 D'Haese, P., 9D26
 Dhak, B. D., 3D251
 Dhanesar, S. C., 3J60, 3J61, 6J87, 7J60, 12J66
 Dhar, D., 10B143
 Dhawan, S. N., 10C43
 Dhinra, U., 3B79
 Diab, A. M., 10E9, 10E13
 Diachenko, G. W., 8F65
 Diacikova, A., 2C67
 Diamandis, E. P., 3E20, 4D210, 6B124, 6D196, 8G7, 10D230
 Diamond, C. A., 1J14
 Dias, F. X., 6B108
 Diaz, A. M., 4J28
 Diaz Garcia, M. E., 11B99
 Diaz Marquina, A., 12F22
 Diaz-Sanchez, V., 9D139
 Dibbelt, L., 8D138, 12D139
 Di Biase, A., 6D180
 Di Bussolo, J. M., 5J40, 6D244
 Di Carlo, L., 6C61
 Di Casa, M., 5D35, 9A13
 Di Cesare, J. L., 8D165
 Dick, J. D., 10D76
 Dick, W. A., 3H30
 Dickens, J. W., 4G7, 4G8, 10F8
 Dickeson, J. A., 5H5
 Dickinson, A. G., 11D225
 Dickinson, C. M., 1D217
 Dickinson, J. C., 10D61
 Dickinson, J. E., 10D166
 Dickson, L. C., 7A20
 Di Corcia, A., 7D143, 12D141
 Dieczalusy, U., 7D145
 Didierjean, M. F., 11H23
 Dieriksen, L., 5C62
 Diebold, G. J., 6J154
 Diehl, H., 8D98
 Diehl, J. W., 2H71
 Diehl, K.-H., 12H85
 Dierich, M. P., 1F2
 Dietel, R., 6B169, 12B160
 Dieter, D. S., 6E66
 Dieterich, I., 6D173
 Dietl, F., 4G12
 Dietrich, W., 4A26
 Dietz, W., 11C75
 Dietze, H.-J., 2J95, 5B94, 9B72
 Diez, J. C., 10D206
 Diggs, T. H., 5H1
 Di Giacomo, A., 5F44
 Di Giovanni, J. D., 6D120
 Dijkstra, A. C., 7H75
 Dik, J., 3D155
 Dilena, B. A., 4D33
 Dilger, C. M., 9J105
 Dillen, L., 2D135
 Dilli, S., 5B14, 5B224, 7A5
 Dills, W. L., jun., 4D145
 Dimante, A., 6D50
 DiMarco, J. P., 4D121
 Di Marzio, S., 4F79
 Di Mauro, P. R., 11J59
 Dimitrov, C., 10J73, 10J74
 Dimitrova, B., 5E33
 Dimond, R. L., 9D200
 Dimov, N., 2C71, 4C54, 10E34, 10J63, 12G17
 Dimov, S. I., 7J52
 Dimova, L. M., 11B98
 Dimson, P., 11H64
 Dimson, P. A., 8D36
 Di Muccio, A., 9G26
 D'Incalci, M., 3D71
 Dinesen, B., 1D165
 Ding, F., 8E15
 Ding, T., 10H85
 Ding, W., 12B63
 Ding, X.-D., 5D99
 Dingjian, H. A., 1E41, 2E30
 Dingler, E., 12D92
 Dinten, O., 10J132
 Dinur, T., 9D258
 Dioguardi, G., 4D28
 Diop, P. A., 9F9
 Diosady, L. L., 4F27
 Di Padova, C., 10D114
 Di Pasquale, G., 6C64
 Di Pietra, A. M., 1E42, 3E30
 DiProssimo, V. P., 11G5
 Diquet, B., 5D67
 Diricks, G., 6J94
 Dirks, R. J. M., 11D58
 Di Sanzo, F. P., 7C58, 8C7
 Dissanayake, P. B., 1D92
 Dittert, L., 1D62
 Dittmar, W., 6E22
 Ditttrich, K., 3B72, 4J124, 7B110, 9B136, 9B186, 10J92, 11B118, 11J88
 Divekar, K. G., 10B56
 Divisek, J., 12H23
 Divos, F., 10B114
 Divoux, S., 4H53
 Diwan, A. M., 4D249
 Dixit, V. S., 11B32
 Dixon, A., 7D75
 Dixon, J. B., 10J42
 Dixon, K., 7B38
 Dixon, R., 8D44
 Dizdargolu, M., 2D184
 DiZerega, G. S., 4D186
 Dlugoski, P. R., 11J24
 Dmitrenko, G. I., 6B85
 Dmitriev, M. T., 2H29, 8H19, 8H23, 8H28, 9H30
 Dmitriev, V. G., 10J79
 Dmitriyov, V. P., 3C50, 8C64
 Dmitrishin, R. T., 4C50, 9C44
 Doadrio, A., 9E20
 Doadrio, J. C., 9E20
 Dobal, V., 10C52
 Dobarganes Garcia, M. C., 8F64
 Dobashi, A., 3D146, 4D215
 Dobb, D. E., 1J71
 Dobberkau, H. J., 11H31
 Dobberstein, P., 10J39
 Dobbins, M. F., 6D179
 Dobma, W., 12A6
 Dobos, K., 7J127
 Dobovisek, A., 6D62
 Dobrowsky, A., 2J51
 Dobrozemsky, R., 5A38
 Docherty, H., 10D118
 Dockray, G. J., 2D189
 Dods, J. M., 12D214
 Dodge, L. G., 9H18
 Doedens, D. J., 6D137
 Doege, G., 8E17
 Doehl, J., 7D129
 Doehrlert, D. C., 4D330
 Doemeny, L. J., 1J7
 Doemling, H.-J., 9F2
 Doerfler, W., 7D217
 Doering, R., 4D206
 Doering, U., 9F12, 10F26
 Doglia, G., 6F66
 Dogra, S. C., 6D90
 Dohnal, J. C., 10J13
 Dohner, R. E., 4D206
 Doi, M., 11H47
 Doi, T., 3J18
 Doizaki, W. M., 2D116, 10B22
 Dojlido, J., 10J137
 Dokladalova, J., 2D56
 Dokolina, G. S., 9B54
 Dolaberdze, L. D., 5B71
 Dolezalova, M., 10E26
 Dolgarev, A. P., 2B84, 9J75
 Dolgorev, A. V., 12H74
 Dolizde, I. V., 4B149
 Dolizde, L. Sh., 8B32
 Dolizde, S. V., 4B149
 Doliwa, H., 6D302
 Dollery, C. T., 10D132, 12D125
 Dolmanova, I. F., 6B1, 6E48
 Dolnikowski, G. G., 10B176
 Dombovskii, V. P., 1B158
 Dominguez-Gil, A., 2D75, 4D104
 Dommissie, R., 7C94
 Domokos, L., 5A36
 Domon, B., 9D220, 9J9
 Donald, R. A., 2D182
 Donaldson, E. M., 1B96, 7B32
 Donard, O., 5B69
 Donatella, D., 5J26
 Dondi, F., 9J7, 11C57

- Doner, L. W., 10C15, 12C14
 Dong, G., 11B95
 Dong, J., 9J40
 Dong, L., 9B152
 Dong, M. W., 5D64, 8D165
 Dong, S., 10D254
 Dong, Z., 3B109
 Dong Cheul Moon, 5B143
 Donhauser, S., 6F73, 7F84
 Doniec, J., 10D38
 Doniga, E., 1D195, 4C7
 Donkerbroek, J. J., 5J11, 7H68, 12B103
 Donkin, P., 8H90
 Donn, K. H., 11D88
 Donnelly, B., 5D64, 5D86
 Donnermeyer, G. N., 9H54
 Donoghue, E. R., jun., 8D32, 8D78
 Donohue, D. L., 12B72
 Donovan, P., 5J68
 Doolan, K. J., 7B143
 Dooper, R. P. M., 6J72
 Doornbos, D. A., 2J7, 4E35, 4E36, 5A32, 7E38
 Doose, G. M., 11G38
 Doran, D., 10D222
 Dorbon, M., 9C41
 Dore, F., 4D102
 Doretti, L., 11J111
 Dorich, R. A., 8G5
 Dorn, D., 7D19
 Dorndorf, W., 6D256
 Dorneanu, V., 4E43, 4E45, 8E59
 Dornemann, A., 6C60
 Dörner, W. G., 4D26
 Dorofeev, V. S., 2J72
 Dorofeeva, V. A., 7H27
 Dorokhova, E. N., 6B136
 Doroshenko, A. I., 10B37
 Dorris, G. M., 4C83
 Dorzapf, A. F., jun., 10J95
 Dorsey, J. G., 7A15, 8J27
 Dortch, Q., 4D279
 Dorten, W., 12H50
 Dorulla, G. K., 8H92
 Dose, K., 1F2, 5F37, 10G2
 Doshi, V. J., 8E46, 10E32, 11E19, 11E37
 Doshier, L. A., 11D71
 Dossi, G., 11J44
 Dostal, A., 1F5
 Dotti, D., 10A23
 Dotzla, J. E., 12E66
 Dou, H. J.-M., 11C45
 Dou, J., 9F15
 Doubet, R. S., 4D148
 Douek, M., 4C83
 Douglas, D., 7J109
 Douglas, K. E., 6H21
 Douglas, S., 6F32
 Douglas, S. A. S., 11C69
 Dourte, B., 1D123
 Doussin, A., 6D160
 Dovbush, T. I., 3H58, 4J63
 Dovichi, N. J., 8J95, 12J104
 Dowell, H. J., 10B83
 Dowell, P. S., 6D104
 Downer, R. G. H., 7D157, 12D146
 Downey, D. M., 8B131
 Downey, E. B., 1H15
 Downey, G., 10F27
 Downey, S. W., 5J42, 12B74
 Downie, R. H., 6G26
 Downing, B., 5B276
 Downing, G. V., 11D102
 Downing, R. G., 12J137
 Downs, T. R., 1D131
 Dowse, R., 4D115
 Dowson, J. R., 3D16
 Doxey, D. L., 9D212
 Doyle, B. L., 12J128
 Doyle, G. J., 9H10
 Doyle, M. J., 5D9
 Doyle, T. D., 1C2, 3E37, 8C36, 8E67, 10E5, 11D88
 Draback, L., 2H38, 6C57, 6H58
 Dragunov, A. A., 9D86
 Draisey, T. F., 11D27
 Drake, E., 6D164
 Drandarov, K., 10E7
 Drapkin, M. Ya., 9B94
 Drasar, P., 9D53
 Drasch, G., 12D29
 Drawert, F., 5D112, 6F62
 Dray, F., 12D126
 Drayer, D. E., 9D61
 Draz, M., 9D72
 Drechsler, H., 7G38
 Dreifuss, P. A., 2E13
 Dreijer-Van der Glas, S. M., 1E41, 2E30
 Drennon, B. J., 11G14
 Drenska, A., 7D70
 Drenth, B. F. H., 2E35, 3D75, 11J16
 Dresscher, W., 7D107
 Dressler, H., 10B131
 Dressler, M., 5J63
 Dressman, R. C., 9H75
 Dreux, C., 11J27
 Dreux, M., 8J25
 Drevenkar, V., 3D86, 5G29
 Doran, D., 10D222
 Drexler, P. G., 11D52
 Dreyer, B., 2J23
 Dreyer, R., 10B62
 Driessen, J. J. M., 1D73
 Driessen, O., 6J112, 7D89
 Drigo, A. V., 12J134
 Drille, M., 2C75, 11B42, 11B80
 Driou, A., 6G20
 Driscoll, J. N., 6J110
 Driscoll, R. C., 4J8
 Driskell, J. A., 11D225
 Driskell, W. J., 1D183
 Drobachenko, A. V., 6B50
 Drobyshev, A. I., 6B13, 8B141
 Drochon, B., 9J23
 Drofa, M. I., 7C26
 Dross, A., 2C56
 Drost, N., 7B125
 Drost, R. H., 6D85, 12D105
 Drouen, A. C. J. H., 7C36
 Droz, C., 5F52
 Drozd, A. V., 8J86
 Drozdov, V. A., 11J130
 Drucker, D. B., 2D159, 7D154
 Drugov, Yu. S., 6H6
 Drumheller, A., 3D262
 Drummer, O. H., 8D77
 Drummond, J. W., 12H20
 Drummond, W., 6J114
 Drury, P. L., 3D77
 Drushel, H. V., 3J9
 Druskina, E. Z., 8C17
 Druyan, E. A., 8H34
 Dryburgh, F. J., 4D44
 Drynkin, V. I., 3B16
 Dryon, L., 2F13
 Drysch, K., 12D166
 D'Silva, A. P., 10B18
 D'Souza, F. D., 4G38
 Du, D., 12B88
 Du, G., 6E29
 Du, X., 6J175, 9E53
 Du, Y., 9D109
 Dua, V. K., 11D207
 Duan, J., 7B53
 Dubansky, A., 3J2
 Dubiel, S. V., 7C97
 Dubinina, L. F., 7D35
 Dubinskii, I. N., 9B91
 Dubinskii, R. A., 10B95
 Dubnack, J., 4B130, 4B131
 Dubois, J. E., 3B85
 Dubois, J. P., 1B155, 2D65
 Duboshin, G. N., 5B183
 Dubouchet, J., 4G27
 Dubov, R. I., 4B82
 Dubovaya, L. S., 4J61
 Dubovenko, L. I., 4B57
 Dubovitskaya, A. N., 8E22
 Dubowski, K. M., 5D106
 Dubreuil, J. P., 10H93
 Dubrovskaya, V. A., 8H32
 Dubsky, H., 11D107
 Duca, A., 4C7
 Ducatillon, J. P., 4F16, 9F19
 Ducauze, C., 8A11
 Ducci, M., 4D64
 Duce, R. A., 6H18
 Duchateau, N. L., 6B64
 Duck-Chong, C. G., 9D134
 Dudai, Y., 10D91
 Dudareva, G. N., 12H74
 Dudas, M. J., 4G9
 Dudeney, A. W. L., 8B128
 Dudko, L. M., 3B84
 Dudnik, S. F., 9B135
 Duerbeck, H. W., 1F9, 3D73
 Duerden, P., 12J142
 Duerr, J., 9B26
 Duewel, U., 6H10
 Duerwer, D. L., 12A9
 Dufek, P., 8C37
 Duffield, A. M., 8C32, 10D152
 Dufresne, L., 10D228
 Duggan, D. E., 11D163
 Duggan, J. L., 7J77
 Duggan, P. F., 6D283
 Dugo, G., 8F48
 Duimakaev, Sh. I., 7B9
 Duine, J. A., 3D248
 Duinker, J. C., 2C80, 12H47
 Duitschaever, C. L., 8F60
 Duke, S. H., 4D330
 Dulsina, S. G., 8E90
 D'Ulivo, A., 6J145
 Dull, B. J., 8D29
 Dulude, G. R., 4J108, 9B155
 Duma, C., 6D76
 Dumarey, R., 5H20
 Dumasia, M. C., 1D46, 10D77
 Dumitrescu, P., 12J116
 Dunaevskaya, L. A., 7C4
 Duncan, A., 6F11, 11F18, 11G2
 Duncan, F. M., 3D67
 Duncan, G. T., 8D254
 Duncan, I., 10J90
 Duncan, P., 12D238
 Duncan, P. H., 8A9
 Duncan, R., 11J42
 Duncan, R. J. S., 3D183
 Duncan, W. E., 3D237
 Duncan, W. P., 5C71
 Dundua, V. Yu., 12D16
 Dunemann, L., 12G3
 Dunlap, R. B., 12J106, 12J107
 Dunn, A., 9D155
 Dunn, B. M., 11D255
 Dunn, B. S., 8D214
 Dunn, D. L., 2E11
 Dunn, J. L., 10H52
 Dunn, L. P., 4D94
 Dunn, M. J., 2J34, 7J50, 10J57
 Dunn, P., 1D186
 Dunnette, S., 2D197
 Dunphy, M. J., 2D80
 Dunsmoor, C. L., 5D6
 Dunstan, R. W., 5D250
 Duong, T., 3D106, 8D56
 Duplaa, A. M., 9D233
 Du Plessis, L. M., 2F41
 Dupont, J., 4D305
 Dupre, G. D., 1D74
 Dupuis, L. T., 1B24, 1B137, 4B50
 Durand, A., 8D40, 12D96
 Durand Alegria, J. S., 9B45, 9B97, 10B170
 Durant, P., 5H82
 Duranti, L., 6D111
 Durcova, O., 2C67
 Durham, A. P., 7D230
 Durie, D., 9J93
 Durliat, H., 10C14
 Durst, R. A., 6J124
 DuSapin, K. S., 5D170
 Duthu, G. S., 11D54
 D'ot, G., 1D83
 Dutrieu, J., 1D101, 2D109, 5D74, 11D128
 Dutt, M. C., 3D32, 7E36
 Dutt, M. K., 6C2, 6C3
 Dutta, A., 1D62
 Dutta, A. K., 7C100
 Dutta, J., 7C100
 Dutta, P. K., 10H5
 Dutton, H. J., 11D140
 Dutton, M. F., 9D152
 Duval, D., 10D130
 Duval, M., 8C58
 Duxbury, G., 7J74
 Duyckaerts, G., 10B76
 Dvorak, Z., 6F33
 Dvorkin, V. I., 2J85
 Dwurazny, A., 10J125
 Dwyer, J., 3C49
 D'yakonova, I. A., 9B23
 Dyatel, S. G., 5H86
 Dyatlovitskaya, F. G., 9E21
 Dybowski, R., 9E33
 Dybvig, R. H., 7D251
 Dyer, J., 9D77
 Dyer, J., 3D135
 Dyer, P. A. M., 3J54
 Dyfverman, A., 6D197
 Dygert, B. S., 7D198
 Dymas, S., 5C100
 Dymond, H. F., 11D115
 Dyzel, S. M., 6J189
 Dyubova, L. D., 10J3
 Dzene, A., 9B53, 11B143
 Dzharafarova, T. A., 6H77
 Dzhahalova, P. N., 5B226
 Dzhalishvili, A. G., 5B71
 Dzharakov, R. S., 11H75
 Dzhihidze, D. V., 4B149
 Dzhiiskariani, O. S., 7D133
 Dzhulgerova, R., 5J85
 Dzhuraev, A. A., 5C5
 Dziegiec, J., 2C8
 Dziezyk, H., 10H95
 Dziomko, V. M., 3B50, 6B78
 Dziwinski, E., 12C64
 Eadie, J., 2D68
 Eadon, G. A., 7G13
 Eadsforth, C. V., 8D95
 East, B. W., 10D18, 10D39
 East, T., 9D77
 Easter, E. P., 8C80
 Eastham, J. F., 4D84, 8J96
 Eastwood, D., 5H77, 8J90
 Eastwood, M. A., 5D174
 Eatherton, R. L., 4J77
 Eaton, D. K., 4J111
 Eaton, D. L., 7D183
 Eaton, E. E., 5A14
 Eaton, R. H., 4D159
 Eatough, D. J., 5H29, 6H23
 Ebana, M., 5J143
 Ebata, N., 8D188, 11D211
 Ebdon, L., 6B26, 7J116B, 12J85
 Ebel, H., 5J124, 7J93
 Ebel, M. F., 5J124, 7J93
 Ebel, S., 5A26, 5E54, 8J49, 12A11
 Eberhardt, K. R., 1A10, 5H96
 Eberhart, S., 8E65
 Ebermann, R., 9D247
 Ebina, J., 10H54
 Ebina, T., 4B190, 6B173
 Ebing, W., 4G39, 9G23
 Ebisuno, S., 12D120
 Ebling, W. F., 9D57
 Eckerbom, S., 10D81, 11D103
 Eckerle, K. L., 1J62
 Eckers, C., 6J29
 Eckersall, P. D., 11J40
 Eckert, J. M., 5H58, 7H50
 Eckert, R., 7J76
 Eckfeldt, J. H., 4D158, 10D182
 Eckhoff, S. R., 1G1
 Eckmann, A. D., 2H23
 Eckrich, W., 10H42
 Edasery, J. P., 7D161
 Edberg, S. C., 10D67
 Eddy, C. L., 4J79
 Edelson, J., 4D117, 5D92

- Edgar, D. G., 3H39, 7H47, 11D28
 Edgar, J. A., 4E28
 Edguer, E., 11B14
 Edirisinghe, A. M. K., 3E32
 Edlin, V. M., 7G13, 11D60
 Edlund, P.-O., 6E7
 Edmonds, T. E., 2B12, 3G4
 Edner, H., 3H11, 5C96
 Edom, R., 6D97
 Edstein, M., 7D44, 9D93
 Edwards, A., 7H46
 Edwards, A. C., 2B31, 12J89
 Edwards, C. R. W., 3D67
 Edwards, G., 8D83
 Edwards, G. S., 4G25
 Edwards, I. R., 4D62
 Edwards, J., 9D114
 Edwards, P., 3J36, 5F2, 10D172
 Edwards, R. B., 4J8
 Edwards, S. J., 12H98
 Efa, A. Ya., 9J133, 11J131
 Efimov, A. N., 4J96
 Efimov, V. T., 1B111
 Efremov, A. A., 8C45, 8C46
 Efremov, G. M., 8J5
 Efremov, Yu. V., 4B94
 Efremova, E. Yu., 11D7, 12D16
 Efremova, G. G., 5B247
 Efrayushina, N. P., 10B67
 Efsthioniou, C. E., 4B33, 5J166, 5J177, 6D13
 Egan, B. T., 4A1B
 Egan, B. Z., 4D298
 Egan, H., 5H98B
 Eganhouse, R. P., 6H101
 Egerts, V., 2C15, 8C11, 8C48
 Egestad, B., 2D123
 Eggers, I., 3D98
 Eggers, H., 4B24
 Eggers, H. M., 5D9
 Eggers, N. J., 7E30
 Eggs, B., 4D74
 Egorov, A. S., 1B55, 4H60
 Egorov, V. V., 11J124
 Egorova, L. A., 5B19, 9B63
 Egorova, M. B., 6B50
 Egorova, T. G., 1C15
 Egorova, T. I., 10C8
 Egorova, T. M., 5C108
 Egsgaard, H., 2J96, 10B113
 Egusa, G., 5D212
 Ehlers, D., 7C85, 9F16
 Ehrenthal, W., 8D221
 Ehrhardt, H., 5B184
 Ehrhardt, M., 4H88B
 Ehrlich, G., 2J80
 Ehrlich, P. H., 8D8
 Ehrsson, H., 5D98, 6D123, 11D60
 Eichelberger, J. W., 7H54
 Eichholtz, P. C. N., 9D157
 Eichholz-Fecher, M., 9F45
 Eichner, R. D., 1D190
 Eick, D., 7D217
 Eicke, A., 11D227
 Eiden, F., 4E51
 Eigenbrodt, E., 5D149, 10D257
 Eijarvi, E., 3B4
 Eilers, G. A. M., 1D96
 Einarsson, R., 4D331
 Einarsson, S., 7D171
 Einfeld, W., 1H17
 Eisen, A. Z., 8D250
 Eisen, C., 10D2
 Eisen, O., 12C8
 Eisen, Y., 5J155
 Eisenbeiss, F., 7J23
 Eisenberg, M., 8D219
 Eisenbrey, A. B., 2D197
 Eisenman, J. R., 8D197
 Eisinger, J., 9D223
 Eisler, P., 8A24
 Eissa, M. G., 10H67
 Ejaz, M., 4B27
 Ejima, A., 1D56, 4E33
 Ek, H., 4D85
 Ekenberg, S. J., 10D10
 Ekiert, L., 12E38
 Ekindjian, O. G., 1A7, 4D47, 4D323
 Ekins, R., 10D172
 Ekman, R., 12D65
 Eksborg, S., 2D53, 11D60
 Ekvis, R. P., 11D2
 Ekwenchi, A. U., 11H70
 Elakovich, S. D., 9E57
 El Assaf, Z., 8C21
 El-Assy, N. B., 10J126
 El-Bialy, A. B., 5B51
 Elbicki, J. M., 4D8
 Elchisak, M. A., 1D126
 Elchuk, S., 4J22
 Eldan, M., 9A31
 Elder, J. P., 1C26
 El-Dessouky, M., 10B19
 El-Din, A. A. S., 10E10
 Eldridge, A. C., 6E11
 Elek, A., 11J118
 Eley, L. F., 4D155
 Elferink, F., 5J34
 Elfstrom, S., 8J117
 Elgamal, I. M., 2J79
 El Ganayni, M., 5J158
 Elgass, H., 6J122, 7D82, 12J35
 El-Hamdy, A., 11F35
 El Hossadi, A., 10H10
 El-Houfy, S., 5E32, 7D79
 Elia, M., 10D118
 Elia, V. J., 1H16
 Elias-Baker, B. A., 11D44
 Eliason, M. S., 5E57
 Elin, R. J., 4D78, 8D3, 8D127, 12D156
 Elinder, C. G., 3D19
 Elinson, S. V., 7B29
 Eliseeva, T. A., 4C27
 Elizalde Gonzalez, M., 7D140
 Elizondo, M. A., 7D32
 El-Khateeb, S. Z., 9C31
 Elkhatib, E. A., 8G6
 El Kheir, A., 8E81
 Elkin, R. G., 9D181
 Elkin, V., 2C15, 8C11
 El-Kommos, M. E., 2E28, 6E38
 Ellaithy, M. M., 3E28, 8E85, 9C31
 Ellefson, M., 7D211
 Eller, K. I., 3G1
 Eller, P. M., 1H11, 5H6
 Eller, T. D., 2A4, 7D78
 Ellinger, G. M., 6F11, 11F18, 11G2
 Ellingsen, O. F., 3E4
 Elliott, D. A., 1J83
 Elliott, D. C., 11C62
 Elliott, G. J., 10E43
 Elliott, H., 11D257
 Elliott, J. C., 12J146
 Elliott, M. C., 3G13
 Ellis, B. E., 10D131
 Ellis, C., 8D220
 Ellis, G., 10D230
 Ellis, K. J., 6D41, 10D41
 Ellis, R., 2F5
 El'man, A. R., 7D77
 Elmghari, M., 3H63
 Elnagdi, M. H., 7B119
 El-Naggar, I. M., 3B61
 El-Rabbat, N. A., 6E38
 El Rassi, Z., 3D234
 El-Samman, F. M., 6C22
 Elsen, W., 6B65
 El-Shahat, M. F., 5B131
 El-Sharnouby, A. K., 2B45
 Elskamp, C. J., 3H24
 ElSohly, H. N., 8D36
 ElSohly, M. A., 8D36, 10D63
 Elson, C. M., 7B76
 El-Taher, E. A., 12J174
 El-Tarras, M. F., 8E85, 9C31
 Elvers, A., 1D44
 Elvers, L. H., 5D193
 Elving, P. J., 4A33B
 Elyaskova, M., 2B90
 El-Yazbi, F., 4D178
 Elzinga, H., 3D133
 Emaldi, G. C., 6F54
 Emami Khoi, A.-A. M., 2E39
 Embrechts, L., 7D85
 Emeis, C. C., 11D252
 Emel, W. A., 5B105
 Emel'yanenko, K. V., 4E4
 Emert, G. H., 11H80
 Emes-Misenko, E. I., 11E40
 Emes-Misenko, O. I., 5D80
 Emets, E. G., 1A5
 Emets, L. V., 11B144
 Eminger, S., 5H34
 Emke, F., 5D138
 Emken, E. A., 2F43
 Emmanuel, J., 1E16, 1E29, 9E47, 11E16
 Emonds, A., 6J112
 Enchev, D., 11E53
 Endeman, H. J., 9D125
 Endo, M., 4J69
 Endo, Y., 5D206, 8D194
 Endovitskii, A. P., 12B80
 Endres, W., 6D302
 Eneroth, P., 4D166
 Eng, F., 9D70
 Engel, G., 5F32
 Engel, G. L., 11D161
 Engel, W., 12H41
 Engelhardt, H., 7J43
 Engelhardt, U., 10F57
 Enger, A., 9D94
 England, J. D., 1D187, 1D188
 Englar, J. R., 6D46
 Engler, G., 5J155
 Engler, R., 4J50
 Englmaier, P., 5H65, 8D103
 Engstrom, R. C., 10J129
 Enke, C. G., 3J93, 7J70, 9A24
 Enokida, T., 3F21
 Enomoto, N., 8J129
 Enqvist, J., 4C73, 6J93, 6J108
 Enrici, M., 4B63
 Enriquez, J. L., 4B155
 Enriquez, R. G., 3E15, 8E5, 11D154
 Ensing, K., 11D33, 11D95
 Ensman, R. E., 6J137
 Ensor, D. D., 1B62
 Entsch, B., 4D282
 Eppley, R. M., 10G3, 10G4
 Eprikashvili, L. G., 10J69
 Epstein, B. D., 9B55
 Epstein, E., 12D133
 Epstein, M. S., 8J59
 Epstein, R. L., 2D192
 Erasmus, C. S., 12B157
 Erb, F., 8D61
 Erbe, I., 1D180
 Erdahl, W. L., 11D136
 Erdei, G., 7G11
 Erdelyi, E., 10D181
 Erdos, E. G., 3D268
 Eremenko, S. N., 11B127
 Eremin, V. N., 5J9
 Eremina, N. V., 11B170
 Ergozhin, E. E., 1B92
 Erhard, P., 7D75
 Erickson, M., 2H19
 Ericson, J. F., 7D87, 11D51
 Ericsson, L. H., 12D179
 Erikson, A. L., 5B105
 Eriksson, A., 10F3
 Eriksson, B.-M., 7D156
 Eriksson, H., 4D228
 Eriksson, K.-O., 10D190, 10D191
 Eristavi, V. D., 11J85
 Ermakov, A. N., 3B55, 7B62, 9B167, 9B172
 Ermakova, N. V., 11B84
 Ermakova, S. V., 10B67
 Erney, D. R., 2F19
 Erni, F., 7J20
 Ernst, J. M., 12C56
 Ernst, K., 7E3
 Ernst, W., 2C70
 Ershov, V. A., 8C53, 11C34
 Ershova, N. I., 6B68
 Ershova, V. F., 9B54
 Ertan, G., 4E20, 11E49, 12E20
 Erttmann, R., 6D68
 Ervin, K., 12D238
 Eryshev, B. Ya., 2C3
 Esaki, N., 2C20
 Esber, H. J., 10D108
 Eschaler, G., 8H55
 Eschbach, H. L., 11A11, 12A6
 Esclassan, J., 3D27
 Escobar, L. I., 3E15, 8E5, 11D154
 Escobar, R., 2D47
 Escott, R. E. A., 7C80
 Escobano Rivero, J., 3F31
 Esen, A., 4D251, 11D197
 Esenova, N. K., 11B6
 Esipov, S. E., 5D84
 Eskay, R. L., 2J12
 Eskelinen, S., 9D36
 Eskola, J. U., 4D327
 Esmans, E. L., 12D164
 Esparcia Garcia, S., 3B91
 Espinosa Garcia, R., 11B82
 Espinosa Mansilla, A., 10B12, 11B25
 Essary, N. A., 5D106
 Essers, L., 9D50
 Essien, E. E., 6E23
 Essig, A. M., 7F53
 Estadieu, M., 12D96
 Estela, J. M., 3B87, 5B211, 5B243
 Estergreen, V. L., 6D188
 Esteves, J., 6B152
 Estienne, J., 10E17
 Etinger, A. G., 4J144
 Etlin, S. N., 8H19
 Eto, Y., 12D153
 Etournaud, A., 7C82
 Ettre, L. S., 1C19, 4J71, 4J72, 11A22
 Etz, E. S., 5B115
 Etzrodt, H., 5D194
 Eugeni, C. E., 11F20
 Eusebius, L. C. T., 4B84
 Eustace, D. J., 3B104
 Evans, C. H., 8B122
 Evans, C. J., 10D181
 Evans, D., 9D190
 Evans, G. O., 2D198
 Evans, J. C. W., 2C64
 Evans, J. E., 6D176, 6D177, 10D133
 Evans, J. F., 7C8
 Evans, J. H., 6D79
 Evans, J. J., 11D150
 Evans, J. W., 4F10
 Evans, L. J., jun., 8D72
 Evans, M. E., 3F30
 Evans, O. M., 10J146
 Evans, R., 8D44
 Evans, R. C., 5J51
 Evans, R. H., 7F70
 Evans, R. S., II, 11H80
 Evans, S., 1J83
 Evans, S. V., 8H90
 Evans, W. E., 4D132, 9D98
 Evanwell, T. K., 6G16
 Evdokimova, V. V., 9D39
 Eveleigh, D. E., 7D112
 Evenson, M. A., 2D81
 Everaerts, F. M., 2J35, 3D124, 3J43, 6D14, 9J48
 Everatt, P., 5J68
 Everett, R. L., 12E52
 Evers, J., 10H93
 Eversole, P., 8D239
 Evett, I. W., 9B177
 Evidente, A., 8D156
 Evlanov, E. N., 11J116
 Evliridis, N. P., 2D178
 Evstaf'eva, R. I., 9C38
 Evstigneeva, E. Yu., 4B22
 Evtimova, B., 5B84
 Evtushenko, N. P., 5C94
 Evtushenko, N. S., 2E17
 Evzhanov, Kh., 11H75

- Ewald, M., 6C36
 Ewen, L., 12D238
 Ewing, A. G., 5J36
 Ewing, G. W., 7J141B
 Ewing, J. T., 2D99
 Exelby, H. R. A., 6B41
 Eyde, B., 4G10
 Eyring, E. M., 6J153
 Ezaki, B., 10J54
 Ezeife, G. E., 11B112
 Ezergaile, I., 11B42, 11B80
 Ezheleva, A. E., 1B164
 Ezzedeen, F. W., 2D100, 4E53
 Fabec, J. L., 5J88
 Fabelinskii, Yu. I., 6J142
 Fabian, I., 1B106
 Facchetti, S., 5D259B, 11G7, 11G8
 Facchini, G., 12E37
 Fadeev, A. G., 5B268
 Fadeeva, L. A., 11B84
 Fadeeva, V. I., 6B105
 Fadeeva, V. P., 11D114
 Faehnrich, J., 8J19
 Fagan, J. M., 1D230
 Fagarasan, E., 8D51
 Fagarasan, M., 8D51
 Fagerstam, L. G., 3D176, 3D202
 Fagioli, F., 8F20
 Fagoaga Caridad, M. P., 5B221
 Fahey, D. W., 5H22
 Faict, D., 10D198
 Faigle, J. W., 8D76
 Fainberg, V. S., 9B91
 Fairbanks, L. D., 4D296
 Fairbrother, J. E., 5E4, 6E1, 7E1, 12J50
 Fairclough, D., 12D22
 Faires, L. M., 6B35
 Fairweather, G. W., 1D24
 Faithfull, N. T., 4J107
 Fajer, R., 3H26
 Fakeeva, O. A., 7B118
 Fakhri, N. A., 6B110, 8B77
 Falandysz, J., 2F21
 Falcone, F., 3B97
 Falcon Florido, J. T., 12F36
 Falendysh, E. R., 5B34
 Falendysh, N. F., 5B34
 Falin, V. A., 4J144, 7A4
 Falini, B., 3D4
 Falk, H., 6J135, 9J101
 Falk, O., 7D145, 7D177, 8D145
 Falkenberg, W., 10H82
 Falkner, S., 11J123
 Fallavier, M., 12J133
 Faltaos, B. N., 5B131
 Faltermeier, E., 6F73
 Fan, B., 10B66
 Fan, C., 6C21, 7D48
 Fan, M., 4B99
 Fan, R., 10J15
 Fan, T. P., 9D9
 Fanali, J. R., 9A29
 Fanali, S., 11B145
 Fanburg, B. L., 3D264
 Fanelli, N., 11J12
 Fanelli, R., 4D138, 5D110, 6D166, 12H90
 Fang, V. S., 9D196
 Fang, W., 5B53
 Fang, X., 10H84
 Fang, Y.-Z., 8H59
 Fanger, H.-U., 5J69
 Fanizza, A., 6D88
 Far, M., 3B27
 Farag, A. B., 5B54
 Farag, R. S., 4F45
 Farber, C. M., 1D198, 6D289
 Farber, S. J., 4D258, 9D2
 Farbstoffkommission der Deutschen Forschungsgemeinschaft (DFG), 11F9
 Farcas, A., 6G31
 Fardy, J. J., 2H37
 Farid, N. A., 2D95
 Farina, F., 2D228
 Farina, P., 3D71
 Farina, P. R., 10D108
 Farina-Mazzeo, A., 12C6
 Farinotti, R., 3D33, 6D162, 6D174
 Farkas, P., 7C33, 8C28, 12C8
 Farmer, J. G., 3G5
 Farmer, M., 11D172
 Farmer, P. K., 7J6
 Farnsworth, P. B., 1J69
 Farnum, B. W., 9C63
 Farnum, S. A., 9C63
 Farnworth, E. R., 7D131
 Farooq, R., 10H10
 Farrar, R. B., 2B46
 Farrell, F. J., 9F3
 Farrell, K., 4D88
 Farrell, R. F., 8B1
 Farren, J., 11J114
 Farris, E., 11D206
 Farroha, S. M., 2C46
 Fartushnyi, A. F., 3E46, 9D104
 Farwell, S. O., 7D148, 8D158
 Fasano, R. E., 4H32
 Fasching, C. E., 6D63
 Fasching, J. L., 6H18
 Fass, F. H., 1D117
 Fassel, V. A., 10B18, 10J96, 12J76
 Fassett, J. D., 2D28, 10J115, 12B73
 Fast, D. M., 8A9, 12D137
 Fateev, N. V., 5B3
 Fateeva, V. M., 6J86
 Fateley, W. G., 11J105, 12C5
 Fatkhudinov, R. N., 11B105
 Fatyushina, E. V., 11B165
 Faubion, J. M., 1G2
 Faugere, J. G., 6G21
 Faulhaber, E., 11G20
 Faulkner, R. D., 5D68
 Faulk, K. F., 10J116
 Faupel, M., 9D275
 Faure, J., 6G21
 Faure, Z., 8D131
 Fausnaugh, J. L., 10D194
 Fauteux, D., 10J140
 Favretto, L., 3H68
 Fawcett, J., 9D114
 Fawcett, N. C., 11H70
 Faynor, S. M., 3D231
 Fazakas, J., 5B67, 9B93, 10B86
 Fazio, S. D., 7D220, 11J36
 Fazio, T., 1D64, 4F41, 4F46, 7C102, 10F61
 Fearn, T., 3G2, 6F32
 Fearney, I., 2D113
 Featherstone, J. D. B., 11D20
 Febo, A., 6H8, 11H13, 11H26
 Fecher, P., 9F2
 Fedai, I., 10D92
 Fedeli, E., 2F40, 8F67
 Fedin, V. P., 2D35
 Fed'kov, E. A., 8J74
 Fedonina, V. F., 8H79
 Fedoroff, M., 5B167, 5J140
 Fedorov, E. E., 1B110
 Fedorov, E. F., 8J14
 Fedorov, L. A., 3B55
 Fedorov, Yu. V., 3C50, 8C64
 Fedorova, N. D., 1B126
 Fedotova, T. D., 9C22
 Fedyanin, A. A., 7J62
 Fedyashina, E. A., 9B48, 9B50
 Feher, O., 10C50
 Fehrenbach, C., jun., 10J4
 Fehring, N. V., 10G17
 Fehse, F., 12B31
 Fehsenfeld, F. C., 5H22
 Feibush, B., 7D170
 Feigley, C. E., 3H4
 Feil, M. C., 4D53
 Feinberg, M., 1J66, 8A11
 Feinendegen, L. E., 12D25
 Feinstein, P. L., 8J54
 Feitsma, K. G., 11J16
 Fekety, K. B., 6E36
 Feklistova, N. A., 8E37
 Feld, R. D., 4D61
 Feldheim, W., 9F56
 Felding, P., 10D201
 Feldmann, D., 4D202
 Felici, M., 4D301
 Felix, G., 11J17
 Felix, L. G., 8J1
 Fell, A. F., 1J31, 6E45, 6E52, 7A16, 10J37, 12E48
 Fell, G. S., 6D35, 6D42
 Fellous, R., 5C40
 Felmine, J. B., 12F7
 Felt, V., 9D174, 12D183
 Feltkamp, H., 1E44B
 Feldt, L., 9J57, 10J71, 10J72
 Felts, J. M., 5D119
 Felty, B. J., 4B196
 Femfert, U., 7D84
 Femia, R. A., 12J105
 Fenech, C., 4D202
 Feng, C. C., 8G17
 Feng, D., 3J108, 5B156, 10J138, 11J128
 Feng, J., 5B195
 Feng, L.-Y., 1D33
 Feng, Q., 7B57, 12B117
 Feng, R., 7D257, 12D169
 Feng, Y., 9H44
 Fengel, D., 11C64
 Fenichel, L., 5C58
 Fenner, R. A., 8C65
 Fennessey, P. V., 11D144
 Fenselau, C., 1D106, 4J143, 5J128
 Fenselau, C. C., 4D70
 Fenwick, G. R., 2G6, 5F41
 Fenyvesi, E., 2J51
 Ferencz, A., 6D271
 Ferguson, S. M., 11D68
 Ferhi, A., 6C4
 Ferioli, A., 6D270
 Ferioli, P., 2J49
 Feriozzi, S., 3D273
 Fernandez, A. A., 6D16
 Fernandez, B., 7F77
 Fernandez, F. J., 9B156
 Fernandez, M. C., 12F36
 Fernandez-Cano, P., 4D273
 Fernandez Garcia, E., 5B246
 Fernandez-Gutierrez, A., 1B32, 1B113, 3B34, 3G21, 10B132, 11B22
 Fernando, L., 1B46
 Feroz, M., 11G35
 Ferrara, F. J., jun., 2D77
 Ferraro, J. R., 11J104
 Ferre, C., 8J10
 Ferreira, E. I., 2E40
 Ferreira, J. R., 2H45
 Ferreira da Silva, D., 8D98
 Ferrell, W. J., 7D57
 Ferretti, A., 9D127
 Ferretti, C., 10H77
 Ferri, D., 1B69, 9H83, 10B73
 Ferri, T., 1J106, 6D43
 Ferris, A. M., 12D132
 Ferrua, B., 8D86, 8D248
 Ferruti, P., 10J56
 Ferry, D., 9B137
 Ferstl, U., 12H62
 Feshchenko, I. A., 5B86
 Fesmire, J. D., 12D197
 Fessler, J. H., 10D253
 Fessler, R. G., 9D196
 Festa, C., 6J145
 Feste, A., 2D235
 Feuerbacher, H., 4J76
 Feun, L. G., 1D65
 Fez Pujol, S., 10C36
 Fiala, J., 8J81
 Ficarra, P., 11E38, 12E19
 Ficarra, R., 11E38, 12E19
 Fichtner, C., 11G7, 11G8
 Fidanza, A. A., 6F12
 Fidanza, J., 2E45
 Fiddler, W., 12F15
 Fidelis, I. K., 11B48
 Fidel'man, B. M., 9B35
 Fiebach, H., 6D254
 Fiebig, H.-J., 4F61
 Fiedler, L., 7D107
 Fiedler, R., 10F28
 Fieguth, P., 9H7
 Field, F. H., 6D88, 7D18
 Field, R. A., 7F39
 Fiedles, M. A., 11D231
 Fielding, A. M., 10D175
 Fields, S. M., 12J62
 Fietkau, R., 10F30
 Fievet, C., 8D209
 Fifield, F. W., 5A44B
 Figarella, C., 8D248
 Figert, D. M., 7F91
 Figge, H., 11J15
 Figge, K., 10F67
 Figuerola, F. E., 9G17
 Fijalek, Z., 8E77
 Filadelfi, M. A., 7G9
 Filatov, V. I., 9J74, 12H44
 Filatova, G. N., 1H18
 Filburn, B. H., 10D76
 Filby, R. H., 4B129, 7C54
 File, S. E., 6D94
 Filer, T. D., 8B57
 Filicheva, T. B., 11C72
 Filion, J., 9F24
 Filippelli, M., 10H50
 Filippova, I. Yu., 5D255
 Filistovich, V., 8B107
 Filonov, V. P., 10H23
 Filpus-Luyckx, P. E., 10J117
 Finardi, G. P., 7E34
 Findeis, P. M., 8D158
 Findlay, N. R. I., 10G25
 Findley, T. W., 12H91
 Fine, D. A., 5C116
 Fine, J. M., 4D252
 Fink, A., 6F53
 Fink, D., 12B105
 Fink, D. W., 12E28
 Fink, H. C., 12E28
 Finkel, J. M., 5D48
 Finkelmann, H., 2J52, 7C45
 Finkle, B. S., 11D43, 12D55
 Finklea, H. O., 1J63
 Finlayson, A. J., 1F1
 Finlayson, J. S., 9E59
 Finne, G., 9F28
 Finney, D. J., 4D14
 Finoli, C., 6F74
 Fiolet, J. W., 1D205
 Firestone, D., 7D102
 Firsanov, D. V., 3J74
 Firsanov, G. A., 11J113
 Firsava, T. V., 4A30
 Firyulina, V. V., 4B40, 5J109
 Fischer, C., 3D110, 5D91, 8B8, 11D133
 Fischer, K., 6H60
 Fischer, P., 9D4
 Fischer, W., 12H18
 Fisenne, I. M., 10H16
 Fish, R. H., 12C44
 Fisher, S. M., 6D67
 Fishkova, N. L., 1B138
 Fishlock, R. C., 9D184
 Fishman, I. S., 9A33
 Fishman, J., 4D184
 Fissan, H. J., 10J151
 Fister, P., 5D149, 10D257
 Fislter, U., 9D256
 Fitz, D. R., 9H10
 Fitz-Gerald, C. H., 10F36
 Fitzgerald, M. P., 7E25
 Fitzgerald, R. V., 9D31
 Fitzpatrick, J. R., 8J102
 Fitzpatrick, M. R., 2H26
 Fiume, R. A., 2H57
 Fjeldt, T. A., 7J123, 7J124
 Fjeldsted, J. C., 6J40, 6J43, 12J53
 Flachowsky, J., 4B130, 4B131, 9B124
 Flack, C. P., 12D180
 Flack, J., 10C81
 Flamerz, S., 6H65
 Flanagan, V. P., 9D127

- Flanjak, J., 11F11
 Flaque, P. A., 12C32
 Flashner, M., 8D186
 Flayoux, R., 4H67
 Fleck, A., 10D34
 Fleckenstein, L., 3D76
 Fleet, B., 1J113
 Flego, R., 4F43
 Fleischer, A. E., 8D231
 Fleish, N. L., 8E56
 Fleisher, M., 10D2
 Fleming, G., 6J1
 Fleming, L. H., 10D178
 Fleming, R. F., 12J137
 Fleming, W. W., 7C15
 Flentje, H., 10D148
 Fletcher, I. J., 5H56
 Fletcher, R. A., 3H3, 11J2
 Fleurette, J., 9D49
 Fleury, M. O., 4D216
 Flieger, M., 8E14
 Flink, J. M., 9F42
 Flodberg, G., 11D166
 Floor, B. J., 5E43
 Flora, T., 2G22
 Florek, M., 11B57
 Florence, T. M., 2H37, 5J189
 Flores, R., 5J145
 Florian, K., 5J97
 Floyd, M. A., 2B46
 Fluegge, U. L., 11D195
 Flynn, S., 10F27
 Foa, V., 6D270
 Fockenier, G., 1D5
 Fodeke, B. A., 2B49
 Fodor, P., 4D22
 Fodor, Z., 6C54
 Foerdt, L., 7H71
 Foerster, H., 12B118
 Foerster, M. E. C., 4D43
 Foerster, U., 6H51
 Fogel, C. L., 10C15
 Fogelfeld, L., 10D91
 Fogelman, I., 4D44
 Fogelqvist, E., 6H83
 Fogg, A. G., 2C28, 6C46, 6E26, 7B87
 Fogg, T. R., 6H18
 Fogh-Andersen, N., 2D21, 3D18, 6D31, 10D19
 Foglia, M., 11D119
 Foglia, T. A., 1F8
 Fogly, I., 11A4B, 11A5B
 Foldesova, M., 9B120
 Folen, V. A., 2D55
 Foley, J. P., 7A15
 Folke, J., 6H102
 Follath, F., 4D74, 4D133
 Folley, L. S., 8D217
 Folster, U., 4C97
 Fondaneche, P., 3B67
 Foner, H. A., 5C97, 12B59
 Fong, G. W. K., 2E23
 Fong, H., 7J126
 Fong, H. H. S., 10E16
 Fong, M. H., 9D63
 Foniok, J., 10C30
 Fonong, T., 12J165
 Fontan, C. A., 12B166
 Fontani, F., 7E34
 Fontelo, P. A., 10D111
 Fonteyne, G. A., 8D247
 Fontignies, M., 7B7
 Font Perez, G., 10C34
 Foon Lee, Y., 9D144
 Foote, J., 6D299
 Forbes, M. A., 12D232
 Force, R. K., 2H27
 Ford, G. D., 8F38
 Fordham, R. J., 5A19, 10C67
 Ford-Holevinski, T. S., 3J49
 Forey, F., 9D49
 Forina, M., 9A19
 Forleo, D. J., 9D17
 Formanovskii, A. A., 12B171
 Formignani, M., 10J150
 Forney, R. B., jun., 4D91, 11D96
 Fornnarino, J., 9E13
 Forrest, T. R., 8G15
 Forrette, J. E., 4G32
 Forsman, R. W., 6D312
 Forsman, U., 3D150, 8E42
 Forster, A. R., 5B6
 Forster, R. J., 4D82
 Forsyth, D. S., 6H88
 Forte, M., 2A7
 Forteza, R., 3B87, 5B243, 7B112, 10B107, 10B124, 11B24, 12B37
 Fortunato, G., 5B27, 8J7
 Fossate, P., 2D170
 Fossey, L., 5E45
 Fosslien, E., 7D192
 Foster, A. B., 7D88
 Foster, M. G., 12H75
 Foster, P. W., 12J111
 Foti, S., 9C83
 Fotsis, T., 4D185
 Fouad, M. T., 8D19
 Fouchard, R. C., 7D131
 Foucher, J.-P., 3E5
 Foucheres, M. C., 11C51
 Foulletier, J., 8J8
 Foulkes, J. A., 5D147
 Fourcroy, P., 11D216
 Fournaise, R., 9D94
 Fournier, D., 9A7B, 11J106
 Fourtillan, J. B., 10D106
 Fowler, K. C., 4D200
 Fowler, M., 4H33
 Fowler, R. T., 2D3
 Fox, I. H., 2D230
 Fox, J. M., 8D74, 10D102
 Fraga, J. M., 10D146
 Fragen, R. J., 8D59
 Fraher, L. J., 12D220
 Frahm, H., 9D197
 Fraisse, D., 9F14
 Fraisse, J., 9D80
 Frake, A., 4D306
 Francel, R. J., 8J51
 Franchimont, P., 4D322
 Franchini, I., 8D195
 Francis, G. D., 12J164
 Francis, G. W., 9D221
 Francis, O. J., jun., 12F24
 Francis, P. C., 7D27
 Francis, R. T., jun., 9D203
 Francis, T. B., 8D214
 Francis, V. C., 2C68
 Francis, T. J., 6A19
 Frank, C. W., 4C75
 Frank, E., 1J35, 4J35, 8F41
 Frank, H., 3J22, 5C26, 5J25, 6D211
 Frank, H. K., 10H94
 Frank, I., 5A36
 Frank, I. E., 4A11
 Frank, J., jun., 3D248
 Frank, J. F., 2F28
 Franke, J. P., 2D61, 3D12, 8D5
 Franke, P., 1E39, 8E87
 Frankenberger, W. T., jun., 7G24
 Franklin, M., 4D223
 Franko-Filipasic, B., 2C10
 Frankovskii, V. A., 8B18
 Franks, T. J., 10E21
 Fransson, B., 4E29
 Franz, A., 3D92
 Franz, H. E., 2D22
 Franzblau, C., 5D101
 Franzblau, W., 5D101
 Franzinelli, A., 10D226
 Franzke, C., 10F66
 Franzky, H.-J., 3E48
 Frare, G., 11G7, 11G8
 Frascari, A., 1D99
 Fraselie, J., 12G16
 Fraser, A. D., 4D99
 Fraser, A. S., 6D1
 Fraser, C. G., 4D33, 12D6
 Fraser, M. E., 4H22
 Fraser, S., 4D223
 Fraticelli, Y. M., 5J174
 Frattini, C., 6C47
 Frattini, P., 6D100
 Frawley, V. L., 6D58, 12D187
 Frayn, K. N., 1D127
 Frayssinet, C., 3D83
 Frazar, J. H., 2H57
 Frech, K., 1D180
 Frech, W., 5B232, 6J133, 9J89, 9J91
 Fredenburg, M. E., 12D202
 Fredericks, P. M., 11C46
 Freeman, C. C., 7F47
 Freeman, J. P., 11D62
 Freemont, A. J., 9D27
 Freese, E., 8D219
 Fregert, S., 9C15
 Fregien, K. D., 11D129, 11D130
 Frei, R. W., 1J32, 2J11, 4D128, 4J36, 5J11, 7C10, 7G36, 7H68, 7H74, 8D166, 8H89, 8J29, 10C10, 10J35, 11J31, 12B103, 12G9
 Freier, E. F., 1D120
 Freiha, B. A., 2J5, 3D130, 3J7, 5E37, 5F10, 12J172
 Freimann, P., 8H44, 12H55
 Frein, E. M., 7D112
 Freiser, H., 6J174, 9J138
 Freitag, W., 5C105
 Freixa, R., 11D135
 Fremouw-Ottevangers, D. C., 12D160
 Fremy, J. M., 10F12, 10F38
 Frend, A. J., 2J111, 5J172
 Freney, J., 9D49
 Frenkel, M., 6J10, 11C55
 Frenkel, V. Ya., 4B98
 Frenzel, M., 5B274
 Frenzel, R., 9A38
 Frenzel, W., 5J191, 9J139
 Fresenius, R. E., 8D11
 Fretzdorff, B., 4G6
 Frew, J. E., 7B21
 Frey, B. M., 7D54
 Frey, F. J., 7D54
 Frey, W. H., II, 11D194
 Freyer, K., 2B92, 5J160, 12J139
 Freytag, J. W., 10D61
 Frick, W., 4D231
 Fricke, F. L., 2G10, 3B68, 11F25
 Fricke, H., 7D8
 Fricova, V., 7D212
 Fridental, J., 11B166
 Fridkin, A. M., 4B92, 5B119
 Fridlender, B., 8D202
 Fridlyanskii, G. V., 9C1
 Friebe, R., 1D26
 Fried, A., 3H16
 Fried, T., 5B5
 Friedl, L., 12E2
 Friedlander, S. K., 11D9
 Friedli, F., 7J105
 Friedman, M., 1F1
 Friedmann, H., 8H11
 Friedmann, H. C., 10D223
 Friedrich, J., 10B62
 Friel, P. N., 10D84
 Frigerio, A., 10A1B
 Friley, B. K., 3D214
 Frisina, G., 12C70
 Frith, K., 6D10
 Fritz, D. A., 11C3
 Fritz, H.-J., 7D217
 Fritz, J. S., 3H60, 6H81
 Fritz, W., 7F15
 Fritzsche, I., 6D139
 Fritzsche, R., 4D217
 Froebe, Z., 4J33, 5G29
 Froehlich, B., 4A26
 Froehlich, D., 11F30
 Froehlich, N., 9H8
 Froehlich, J. C., 3D110
 Froehlich, P. N., jun., 12H86
 Frohne, J. C., 11J63
 Frolov, V. K., 1B158
 Frolova, V. P., 9B141
 Frontera, M. A., 11C25
 Fruchart, J. C., 8D209
 Fruhling, R., 4F8
 Fruitwala, N. A., 6J99
 Frumina, N. S., 11B127
 Fry, R. C., 10F30, 12C5
 Frycka, J., 5C80
 Frye, R. M., 6D54, 11D38
 Fryer, J. R., 7J75
 Fszalas, J., 1B26
 Ftikos, C., 9C80
 Fu, B., 3B12
 Fu, J., 8B59
 Fu, K., 5B16, 9B103
 Fu, P. P., 8C42
 Fu, R., 5C42
 Fu, T., 5H76
 Fu, X., 12E32
 Fu, Y., 8B74
 Fuavao, V. A., 5B104, 5D32
 Fuccello, A., 12D175
 Fuchs, C., 7D19
 Fuchs, E.-F., 5E8
 Fuchs, G., 11E10
 Fuchs, P., 1E44B
 Fuchs, S., 10D91
 Fuchs, W., 5D249
 Fudal, A., 2J68
 Fudano, S., 9C70, 12H92
 Fudge, A. N., 10D29
 Fuerlinger, E., 7E12
 Fuerst, L., 12H23
 Fuerst, W., 11E10
 Fuesel, U., 7D152
 Fugivara, C. S., 8J121
 Fujihara, S., 6D202
 Fujii, H., 3E10
 Fujii, K., 9D73
 Fujii, T., 5D132, 11C1
 Fujii, Y., 1D112, 3E10, 5E17
 Fujiki, Y., 7J48
 Fujikura, T., 4D336
 Fujimoto, C., 1J33, 3J13, 10J38, 12J39
 Fujimoto, M., 2D14
 Fujimoto, N., 11D124
 Fujimura, Y., 2G30, 8E10
 Fujinaga, K., 9C10
 Fujinaga, T., 1B117, 2J84, 6J12, 12J7
 Fujino, H., 4C15, 6C7
 Fujino, O., 8B52
 Fujinuma, K., 7F75
 Fujisawa, K., 3H70
 Fujisawa, S., 1G10
 Fujishima, M., 8C43
 Fujishima, T., 10F17
 Fujishiro, Y., 12J92
 Fujita, A., 2B33
 Fujita, E., 6D277
 Fujita, K., 1D131, 12D228
 Fujita, M., 4D39, 8F27
 Fujita, S., 9F38
 Fujita, T., 3E19, 10J53
 Fujita, Y., 1D128, 1E15, 1E34, 3D79, 6E51, 7E8, 8D198, 8J124, 9E22, 12B100, 12D161
 Fujiwara, K., 1H39, 4B120, 5D100, 12D216
 Fujiwara, M., 3F15, 9H33, 12E5
 Fujiwara, S., 1D70
 Fukae, R., 3D215, 7D207
 Fukal, L., 5F51, 7D235
 Fukamachi, K., 7H22
 Fukasawa, T., 1B39, 5H10, 7B111, 12B139
 Fuks, R., 3C18
 Fukuchi, H., 11D57
 Fukuda, H., 1H7
 Fukuda, T., 11D199
 Fukuda, Y., 10H75, 11B148
 Fukui, S., 8F3, 9F53
 Fukui, Y., 12D66
 Fukuoka, H., 8J97
 Fukushi, K., 1B98, 7H39
 Fushige, S., 3D222, 6D272
 Fukuzaki, N., 1H8
 Fuller, C. W., 9C73
 Fuller, N. J., 3D243
 Fulle Soldi, T., 2B6
 Mull, M. L., 6J124

- Funae, Y., 2D234
 Funazo, K., 5C3, 6B24, 8H97
 Funck, E., 1B10, 5J153
 Funck, R. J. J., 12J154
 Funcke, V., 2C52
 Funderburgh, L. J., 4D190
 Funding, L., 10D81
 Fung, D. K., 1B155
 Fung, K., 12J3
 Funk, J., 9B136
 Funk, W., 2D156
 Funke, U., 4D58
 Fuoco, R., 6H74
 Furkert, J., 9A38
 Furman, W. B., 2D79
 Furmanczyk, E., 10H95
 Furtado, E. G., 8J53
 Furtado, M. M., 10F43
 Furuhashi, Y., 3D213
 Furukawa, M., 1B161, 2A17, 8B113, 10C60
 Furusawa, M., 5C56, 6B31, 8C43, 8F51
 Furuta, M., 4B181
 Furuta, R., 7B155
 Furuta, T., 11D238
 Furuya, K., 8H33
 Furze, J. M., 9E60
 Fusban, H.-U., 12G4
 Fuseau, E., 4D67
 Fushimi, M., 5D161
 Fuska, J., 4E27
 Futekov, L., 4B132
 Fuwa, K., 1H39, 2D220, 4B120, 4D59, 4H18, 8B54, 8D10, 9D37, 9F31, 12H31
 Fyfe, C. A., 9C86
 Fyfe, R. W., 4D142
 Fyhrquist, F., 12D237
 Fymat, A. L., 8A23
 Gaal, F. F., 5C23, 10D149
 Gabbe, S. G., 6D179
 Gabel, D., 4I68, 6B65, 6J33
 Gabelica, Z., 3B111
 Gabeskiriya, V. Ya., 4B94
 Gabetta, B., 6E19
 Gabler, R., 6B32
 Gabolaez, Z. M., 5B185
 Gabor-Klatsmanyi, P., 7J129, 10C72
 Gaboury, A., 12C61
 Gabri, G., 6F66
 Gabriel, N. E., 7B34
 Gabrielli, M., 1J106
 Gabrys, J., 2D172
 Gacén, J., 12C67
 Gacesa, P., 1D97, 3D95
 Gaddipati, N., 8E80
 Gad-Kariem, E. R. A., 2E34, 8E68, 11E23
 Gadow, A., 6D8, 7D8
 Gadsden, R. H., sen., 9D102
 Gadzekpo, V. P. Y., 2D12, 8J123
 Gaetani, E., 7D162
 Gaevskaya, L. V., 10B156
 Gaffney, M. H., 11D99
 Gafner, J.-L., 11G22
 Gafurov, V. G., 6F59
 Gafurova, R. N., 4B187
 Gaginella, T. S., 12D239
 Gagliardi, L., 4E9, 5E14, 10E35
 Gagliardi, P., 6J61, 7F64
 Gaibakyan, D. S., 9J45, 11B15
 Gaidulis, L., 4D254
 Gaier, B., 12D193
 Gaikwad, A. G., 4B146
 Gailey, P. C., 3F9
 Gaillet, J., 9D92
 Gaines, J., 6F26
 Gaines Das, R. E., 5D143, 5E9
 Gaishun, K. A., 11C16
 Gaivoronskii, P. E., 10B81
 Gajek, O., 2G13
 Gal, J., 5D79, 5E41, 5J132, 11D91, 12E46
 Gal, M., 10C50
 Gal, P., 11D121
 Galacz, J., 10F13
 Galaev, I. Yu., 9D177
 Galagan, R. L., 5E28
 Galan, P., 5D18
 Galan Gonzalez, J. M., 12F36
 Galanos, C., 3A3
 Galante, R. N., 9E34
 Galchenko, V. F., 7D135
 Gale, R. J., 7B58
 Galeano Diaz, T., 1B112
 Galen, R. S., 6D234
 Galensa, R., 6F61, 9F6
 Galetto, W. G., 6F63
 Galewsky, S., 9E5
 Galhotra, M. M., 7D200
 Galimany, R., 8J10
 Galindo, L., 3B32
 Galinova, K. G., 4B59
 Gal'kevich, I. I., 3E35
 Galkova, T. N., 7B88
 Gall, L. N., 11J29
 Gallagher, S. K., 7D231
 Gallai, Z. A., 6B132
 Galle, B., 6H36
 Gallego, M., 6B66, 8B71
 Gallego Andreu, R., 5B154, 5B246, 5D20, 9B45, 9B97, 10B3, 10B170
 Gallegos, E. J., 12C48
 Gallelli, D., 11D170
 Gallelli, J. F., 6D71, 8D46
 Galletti, G. C., 6G19
 Galli, C. L., 5F7
 Galli, G., 5F7, 12D227
 Gallignani, M., 12D19
 Galli-Kienle, M., 10D114, 12D227
 Galliot, M., 11D37
 Gallis, D., 3H65
 Gallo, N., 7D97
 Galloni, R., 1B67
 Galloo, J. C., 6H38
 Gallorini, M., 9A13
 Galoux, M., 12G15
 Galson, D. A., 9B82
 Galt, A. M., 9F23
 Galteau, M. M., 8D2
 Galuska, A. A., 6B183, 8B139
 Gambarov, D. G., 5B41
 Gambashidze, L. M., 7B46
 Gamerith, G., 4D218
 Games, D. E., 1J21, 7J37, 8J32, 8J33, 9J19, 10J39, 12H75
 Gamlen, T. R., 1D43, 1D176, 9D41
 Gammage, R. B., 2H21
 Gan, J. C., 2D235
 Gan, W., 6B51, 6B82
 Ganago, L. I., 5B150
 Ganansia, J., 2D93
 Ganapathy, K., 6C29
 Gandelman, M. S., 7C10, 7E9
 Gandhe, B. R., 12C24
 Gandhi, V. N., 12E40
 Gandin, B., 8D131
 Ganescu, I., 3E44
 Gang, X., 9B79
 Gangadharan, S., 10J112
 Gangoda, M. E., 3J20
 Ganguli, N. C., 2F31, 7B158
 Gameev, A. G., 4B187
 Ganin, G. I., 12C31
 Gankina, E. S., 6J45
 Ganno, S., 5D118, 6D151, 8D110
 Gans, P., 6A15
 Gant, J. R., 5J40, 6D244
 Gantner, E., 4J155
 Ganz, S., 4J109
 Ganzerli Valentini, M. T., 3B45, 11B23
 Gao, B., 12B76
 Gao, F., 11E9
 Gao, H., 9E49
 Gao, R.-Y., 1G14
 Gao, S., 6D30, 6J175, 9E6, 9H56
 Gao, W., 12B42
 Gao, X., 5B95, 9B75
 Gao, Y., 6E20
 Gao, Z., 8H13, 9J40
 Garai, T., 11C35
 Garaj, J., 10B161, 10G22, 11G32
 Garbassi, F., 3B97, 5J123
 Garbauskas, M. F., 2B87
 Garbuk, S. V., 5B240
 Garcia, A. L., 9D224
 Garcia, J. R., 10B5
 Garcia, S., 3D224
 Garcia Alonso, J. I., 11B99
 Garcia Alvarez-Coque, M. C., 3B91, 4A19, 6B146
 Garcia Calzon, J. A., 3A10
 Garcia de Torres, A., 7B114, 8A5, 8B28, 10B8
 Garcia-Escolar, L., 3C48
 Garcia-Estepa, R., 8B75
 Garcia-Gutierrez, A., 7H76
 Garcia-Leon, M., 12B135
 Garcia Mata, T. N., 12F2
 Garcia-Montano, E., 12B135
 Garcia Montelongo, F., 1B89, 3B32, 10B21, 10B32, 10B35, 10B44
 Garcia-Moreno, C., 8F45
 Garcia O., R., 9D64
 Garcia Puertas, P., 12F28
 Garcia-Raso, J., 4F50
 Garcia Sanchez, F., 1B49, 2B75, 3A6, 5B76
 Garcia-Vargas, M., 3B24, 3B103, 5B155, 6B14, 6B66, 10B10
 Garcia-Villanova, R., 5B160, 8B75
 Garcia-Villanova, R. J., 5B160, 8B75
 Garcia-Webb, P., 1D145
 Gardella, J. A., jun., 12C68
 Gardiner, D. J., 8C47, 10J109
 Gardner, A. M., 8F65
 Gardner, H. W., 2C22
 Gardner, J. J., 8D80
 Gardner, W. S., 7H43
 Gareil, P., 9J21, 11A21
 Garfield, H. J., 2D5, 12D213
 Garg, A. K., 12J78
 Garg, A. N., 6F60
 Garg, G. S., 10B20
 Garganta, C. L., 1C1
 Garlicka, I., 10D38
 Garn, P. D., 1E19, 1J122
 Garnick, R. L., 9E25
 Garnier, J. P., 11J27
 Garozzo, D., 9C83
 Garratt, K. N., 8D239
 Garren, K. W., 8D160
 Garrett, E. R., 2D72
 Garrett, H. E., 9G13
 Garrett, P. E., 4D260, 6D20
 Garrido Fernandez, J., 7F72
 Garrigan, J. T., 9H80
 Garrigues, P., 6C36
 Garrison, C. R., 6D300
 Garrison, G. M., 6D223
 Garrison, J. L., 7D164
 Garrison, P. N., 7D219
 Garske, E. E., 10H39
 Garteiz, D. A., 7D81
 Garten, M. A., 3C42
 Garten, R. P. H., 9J66, 11J84
 Garti, N., 11C55
 Gartsman, K. G., 4J96
 Garuti, P., 10D9
 Garvey, D. M., 11J149
 Garza-Flores, J., 9D139
 Gasanov, S. G., 2E21
 Gasco Leonarte, C., 5D20
 Gascon, J., 8J118
 Gasi, K. M., 10D149
 Gaskell, S. J., 1D113, 5D143, 8D7, 8D132, 9D136
 Gasparic, J., 8E62
 Gassiot Matas, M., 3F29, 4J28
 Gast, H., 7J142
 Gaston, C. M., 11F25
 Gatchell, D. K., 12H52
 Gattellier, C., 9B149
 Gates, B. C., 7C64, 9C64
 Gates, R. A., 12F15
 Gatfield, I. L., 7D252
 Gatica, H. S. E., 11C25
 Gatinskaya, N. G., 7B62
 Gatt, S., 9D258
 Gattavaccia, E., 2D106, 4E9, 5D258, 5E14, 10E35
 Gauch, R., 2F25
 Gaudel, G., 5D67
 Gaudric, M., 4D47
 Gaughan, R. G., 8C31
 Gaughush, R. F., 8H66
 Gauneau, M., 12B186
 Gaur, M., 12E41
 Gaur, S. S., 2B77
 Gause, E. M., 3D76
 Gauster, D. J., 4D314
 Gauthier, M., 10J140
 Gauthier, R., 9B86
 Gavalas, G. R., 7C64
 Gavioli, E., 5F3
 Gavrichev, V. S., 1J51, 4J62, 4J64
 Gavrilova, E. F., 5B97
 Gavrilova, L. N., 7C93
 Gavrilova, T. B., 10J73, 10J74
 Gawbriggs, Y. A., 5B131
 Gawdzik, B., 10J70
 Gaudin, J., 10J70
 Gaweł, J., 10B40
 Gaydou, E. M., 4G5, 9D119
 Gaye, M. D., 2E45
 Gayte-Sorbier, A., 4F7, 5E38
 Ge, J., 8E82
 Ge, Z., 12B117
 Geake, J. E., 2I63
 Geary, D. L., jun., 1H19
 Gebauer, K., 11D122
 Gebauer, P., 3H37
 Gebhart, J., 12H10
 Gedam, P. H., 8C91
 Geddes, C., 6D206
 Gedek, W., 11D61
 Gee, M. G., 12J111
 Geeraert, E., 1J46, 6J71
 Geerdink, R. B., 9G21, 12G9
 Geerts, W. J., 1D150
 Gehron, M. J., 7H64
 Geiger, E., 6F73
 Geiger, H., 1D5, 3D90
 Geiko, O. N., 12J1
 Geiseler, D., 1D144, 3D9, 8D142, 10D172
 Geisler, M., 12J138, 12J139
 Geisling, K. L., 2H22
 Gelbrecht, J., 7B102
 Geleishvili, T. P., 7B46
 Gelfand, M. J., 1D82
 Gelfi, C., 10J56
 Geller, J. I., 4D145
 Gelot, S., 2D19
 Gelpi, E., 1D132, 1J44, 8D154, 11D135, 11D156, 11D165
 Gelsomini, N., 6J73
 Gemeiner, M., 5D192
 Gendreau, M., 3D262
 Genestarc, C., 3B27, 11B49
 Geng, C., 8E25
 Geng, X., 6D238
 Genieser, H.-G., 4J68, 6J33
 Genka, T., 5J150
 Gennaro, M. C., 2H31, 5B23, 9C17, 11B87
 Genova, N., 2H43, 4H58, 10H53
 Gentner, N. E., 7D216
 Gentry, B. M., 10H21
 Geoghegan, W. D., 8D235
 George, A., 10H16
 George, A. E., 1C22
 George, H., 6D20
 George, J., 12C62
 George, K. M., 5F42, 11C59
 George, P. M., 9D260
 George, R., 5J76, 11J34, 12B175
 George, S. A., 6J122, 9J32, 12J35
 George, U., 4B3
 George, W. A., 11J59
 Georgievskii, V. P., 6E58, 11E33

- Georgopapadakou, N. H., 11D245
 Georgy, M. E., 8D19
 Geppert, G., 416
 Geraci, G., 6D260
 Gerald, L., 5D102
 Gerardi, M., 7B69
 Gerasimenko, G. I., 12B69
 Gerasimova, G. A., 9D39
 Gerasimowicz, W. V., 12H94
 Gerber, A., 6D301
 Gerbert, D., 1A7
 Gerbitz, K.-D., 10D261
 Gerding, T. K., 11D95
 Gere, D. R., 5J17, 11J20
 Gergely, A., 5E25
 Gerhards, R., 4C61
 Gerhardt, J., 5C26
 Gerig, T. M., 1C1
 Gerkema, E., 6B176
 Gerlock, J. L., 7C95
 German, A., 10D62
 Germerdonk, R., 9A35
 Germershausen, J., 5D207
 Gerok, W., 4D309
 Gerrard, D. L., 5C101
 Gerrity, M., 12D142
 Gershenzon, E. M., 1B72
 Gershey, R. M., 7J29
 Gershkovich, I. A., 4F72, 11C11
 Gershman, L. L., 4B133
 Gershuns, A. L., 8D226
 Gershwin, L. J., 7D198
 Gerson, B., 8D47
 Gerstein, B. C., 3J85
 Gersten, D. M., 10D197
 Gerstenberger, H., 9B72
 Gertsen, T. A., 6B4, 11A10
 Gertz, C., 4F13, 5F9, 8F12
 Gervais, P., 2D59, 6D124
 Gervin, A. S., 12D26
 Gervin, C. A., 12D26
 Gescher, A., 3D71
 Gessa, C., 4C12
 Gesser, H. D., 12H91
 Gessner, T., 12D71
 Getek, T. A., 8E38
 Getmanskaya, Z. I., 5C15, 7C78
 Getty, R. H., 4C28
 Geuns, J. M. C., 4J60
 Gevaert, L., 1D5
 Gevorgyan, A. M., 4B53
 Geyer, H., 3D93
 Geyer, R., 3D87, 3D88, 3D93, 10F16
 Ghaoui, L., 4J59, 8J57
 Ghatge, B. B., 8J58
 Ghatuary, R. K., 10B143
 Ghe, A. M., 8B9, 8J130, 9B128, 11B7, 11J145
 Ghielmi, S., 9D214
 Ghijsen, R. T., 3D75
 Ghini, S., 9D145, 10D236
 Ghione, S., 10E14
 Ghodgaonkar, G. S., 11B32
 Gholse, S. B., 8B86
 Ghoneim, A. K., 7B119
 Ghos, Y., 6D199
 Ghosal, M., 6H78
 Ghose, A. K., 4B84
 Ghosh, A., 7C100
 Ghosh, A. K., 9D175
 Ghosh, D., 10C28
 Ghosh, P., 3D116, 4D337
 Giabbai, M., 6H78
 Giachero, D., 8D220
 Giachetti, C., 6D82
 Giacomelli, R., 7F59
 Giampietro, O., 1D88
 Gianazza, E., 10D192, 10J56, 11J44
 Gianelli, M. L., 5J81
 Giang, B. Y., 11J65
 Giannessi, S., 2D186, 8H77
 Gianola, K. M., 4D145
 Giaretta, A., 1B153
 Giarrusso, A., 6D69
 Gibb, J. P., 10H39, 11H56
 Gibbs, C. F., 11H68
 Gibbs, P. H., 6H73
 Gibeault, J. P., 5J168
 Giblin, E. M., 9H68
 Gibson, D. W., 11D212
 Gibson, N. A., 7H50
 Gibson, R. A., 12D95
 Gibson, T., 4D296
 Gibson, W., 3J40
 Giddings, J. C., 1J22, 2J125, 4J84B, 6J9
 Giddings, R. C., 9J96
 Giehl, R., 4E22
 Giesdorf, W., 5D88, 9D85, 10D99
 Gierak, A., 6J34
 Giesbrecht, F. G., 10F8
 Giese, R. W., 1D35
 Giesel, J., 12J58
 Giessler, A. J., 8D53
 Giessmann, U., 3J90
 Giesy, J. P., 2H59
 Giger, W., 10H66
 Giguere, Y., 8C58
 Gihwala, D., 5J70, 7B127
 Gijare, A. S., 10E32
 Gijbels, R., 4B115, 9J112
 Gil, M., 6D282
 Gil, P., 8D40
 Gilbertstadt, M. L., 11D168
 Gil'bert, E. N., 4B106, 5B286
 Gilbert, H. S., 10D135, 11D222, 11D229
 Gilbert, I., 12D186
 Gilbert, M. D., 6G33
 Gilbert, R., 8H82
 Gilbert, S. S., 12D172
 Gilbert, T. W., 9C54
 Gilbertson, T. J., 10D94
 Giles, I. G., 2D173, 2D174
 Gilfillan, C. A., 12D123
 Gilfrich, J. V., 8J80
 Gill, F., 1D184
 Gill, J. B., 6A15
 Gill, M., 2B50
 Gill, P. S., 11J147
 Gill, R., 7A16
 Gillan, F. T., 10D100
 Gillen, D., 12J22, 12J27, 12J28
 Gillery, P., 1D206
 Gillespie, A. M., 12F39
 Gillet, G., 2D93
 Gillett, R. W., 9B1
 Gilliam, J. M., 7J106
 Gillieron, E., 6B124
 Gilligan, D., 6D297
 Gilligan, J. P., 3D143
 Gillilan, R. B., 3D48, 3D65
 Gillis, R. G., 11C19
 Gilmartin, D. E., 2J90
 Gilon, C., 8D159
 Gil-Perez, J. E., 12B133
 Gilpin, R. K., 3J20
 Gilson, J.-P., 3B111
 Gilydis, D. M., 7G30
 Gimano, V. P., 4J88
 Gimenez, M. P., 7D72
 Gimeno, A., 8F44, 10G6
 Gimeno Adelantado, J. V., 6D45
 Gimpel, J. A., 6D33
 Gine, M. F., 2H45, 7G1
 Ginsberg, S. L., 2B7
 Giocoli, G., 4D270, 8A13
 Gioielli, L. A., 9F37
 Giordano, R., 2D15
 Giovagnoli, A., 12B186
 Giovanangeli, M. D., 10D107
 Giovanetto, S. H., 3D80
 Gippner, P., 12B30, 12B130
 Girard, E., 12J140
 Girenko, D. B., 5G38, 7G34, 10H38
 Girgis, A. N., 10E12
 Giri, S. K., 6J135
 Giriya-Shankar, P. N., 4B9
 Girmann, J. R., 2H22
 Giromini, V., 11F32
 Girotti, S., 9D145, 10D236
 Giss, G. N., 8J63
 Giuliani, J. F., 3H12
 Giuliodori, P., 11D175
 Giusiani, M., 4D64
 Gizinski, S., 5C6
 Gjerde, D. T., 6H81
 Gjoes, N., 2H52
 Glabisz, U., 5G19
 Glad, M., 3J16
 Gladilovich, D. B., 3B88, 5J109, 6B67
 Gladov, V. G., 4B164
 Gladstone, C. M., 3C53
 Gladyshev, V. P., 10B121
 Glasl, H., 4E10, 12F29
 Glatz, U., 9J105
 Glatzel, E., 3D17
 Glaze, W. H., 5H85
 Glebko, L. I., 9D110
 Gleich, G. J., 2D197
 Glen, A. C. A., 4D159
 Glenc, T., 2B63
 Glenn, G. C., 6D6
 Glennie, R. T., 6F11, 11F18, 11G2
 Glerum, J. H., 11D31
 Gleviczky, S., 2C59
 Glichev, A. G., 6B102
 Gliddon, M. J., 6G22
 Gligorijevic, V. J., 10B171
 Glinskaya, I. V., 4B80
 Glinzer, O., 2C42, 2C43, 12C47
 Glish, G. L., 5J127, 9J115
 Globa, N. I., 11J139
 Glod, B. K., 4C18, 4C19
 Glodowski, S., 8B40
 Gloeckner, J., 6J119
 Gloger, M., 1E8
 Glosova, M., 11E42
 Glover, A., 2F15
 Glover, R. E., 5J88
 Glowacka, D., 10D123
 Gluckman, J. C., 2J22
 Glukhov, G. G., 5C65, 12B159, 12J136
 Glukhova, G. V., 12B158
 Glushchenko, E. L., 9B62
 Glushchenko, L. M., 9B77
 Glybochko, N. I., 10C68, 10C69
 Gmitro, M., 2B88, 11B129
 Gmuca, S., 2A20
 Gnanasambandan, T., 4A23
 Gnaser, H., 7J104
 Gnauck, R., 3C69, 8C86
 Gneeva, V. I., 7B140
 Gnosin, V. N., 10B118, 11B120
 Goad, L. J., 12C15
 Goad, T. B., 6J15, 6J16
 Gochman, N., 12D20
 Goday, A., 4D296
 Godbillon, J., 8D34, 9D78
 Godbole, S. V., 4B97, 5B113, 6B69, 12J96
 Goddard, C. P., 6E10
 Godden, E. A., 5J3
 Gode, K. D., 11E29
 Godeau, F., 10D252
 Godeny, S., 12D17
 Godhwani, N. D., 11J35
 Godinho, O. E. S., 9F49, 10A9
 Godinot, C., 10D37
 Godlevskii, A. P., 10H2
 Godolphin, W., 4D88, 6D74
 Godoy, J. M., 2H11, 5H87, 5H88, 6B58
 Godoy, J. M. de O., 5H2
 Godshall, M. A., 3F10, 11F12
 Godwin, I. R., 4D20
 Godyna, N. F., 11B27
 Godynskaya, R. I., 11C16
 Goebel, H., 3F6, 6F15, 8A12
 Goebel, R., 6D221
 Goebel, B., 1E39, 7E18, 8E87, 12E1
 Goedde, M., 12D24, 12D38, 12H51
 Goegelman, M., 1J3
 Goering, H.-W., 10C82
 Goerlitz, K., 4E37
 Goertz, W., 4C76
 Goewie, C. E., 8H89
 Goff, E. U., 6D112
 Goganov, D. A., 4J88
 Goggin, P. L., 2D48
 Gogichaishvili, T. N., 4B149
 Gogitidze, N. M., 11C7
 Goguelin, A., 6D160
 Goha, K. C., 6F80
 Gohil, K., 3D250
 Gohshi, Y., 4A24, 11A27
 Goizman, M. S., 10B95
 Golander, A., 10D145
 Golas, C. L., 7D52, 7D53
 Golas, J., 12B86
 Gold, A., 12C16
 Goldbart, Z., 9A30, 9A31
 Goldbaum, L. R., 5D50
 Goldberg, A., 10D152
 Goldberg, A. L., 7F26
 Goldberg, A. P., 6D278
 Goldberg, I. J., 9D264
 Goldberg, M. R., 11D46
 Golden, N. L., 4D97
 Goldfield, D., 10D40
 Goldfinch, M. J., 7D9
 Goldhirsch, A., 6D301
 Goldich, S. S., 11B78
 Goldman, M., 6F1
 Goldman, M. E., 2J12
 Goldschmidt, H. M. J., 6D204
 Gol'dshtein, M. M., 4B106, 5B286
 Goldstein, A. L., 8D182
 Goldstein, D. E., 1D187, 1D188
 Goldstein, D. S., 2D164, 12D154
 Goldstein, G., 12D175
 Golightly, D. W., 10J95
 Golik, N. N., 1B54
 Golimowski, J., 4H55, 5B12
 Golitsina, V. S., 11C28
 Goljer, I., 10J113
 Golkiewicz, W., 8D162
 Goli, D. E., 1D230
 Gollamudi, R., 11D242
 Golloch, A., 5J106
 Golovina, A. P., 4B78, 6B78, 9B69
 Golubchenko, I. T., 9C26
 Golubev, V. N., 4H59, 9J126, 9J128, 12B39
 Golubeva, I. L., 5B22
 Golubtsova, Z. G., 3B84
 Golubushkin, V. N., 11C38
 Golatvina, M. M., 7D28, 8D26
 Gomatli, H., 5C84
 Gomenyuk, A. S., 7C12
 Gomes, T., 5F21
 Gomez Ariza, J. L., 1B133, 2A2, 5B219, 9B36, 10B8
 Gomez del Rio, M. I., 3B2
 Gomez-Fernandez, J. C., 4D317
 Gomez-Gerique, J. A., 8D173, 10D173
 Gomez-Hens, A., 3A6, 12B92, 12F11
 Gomez-Sanchez, C. E., 12D144
 Gomez-Sanchez, E. P., 12D144
 Gomiscek, S., 9D19, 9D20, 9H50, 10D16
 Goncharova, N. A., 11B144
 Goncharuk, V. F., 12J1
 Gonchoroff, D., 9D10
 Gondko, R., 2C4
 Gong, B., 12B19
 Gong, G., 2B67, 6C66
 Gong, H., 9J135
 Gong, P., 7J66
 Gong, Y., 5B53
 Gonnet, C., 1J28, 6D57, 6D89, 7D58, 11D79, 11D220
 Gonnord, M.-F., 1J43, 6J80
 Gonsior, B., 4H53
 Gonzalez, L. A., 3H8
 Gonzalez, L. F., 7J54
 Gonzalez, M. C., 7C55
 Gonzalez, M. P., 8D244

- Gonzalez, R., 10D109
 Gonzalez Diaz, V., 10B21, 10B32
 Gonzalez Lopez, C., 7F13
 Gonzalez Lopez, F., 2D75
 Gonzalez-Martin, M. I., 4E44, 5B242
 Gonzalez Mateo, P., 5B38
 Gonzalez-Perez, C., 4E44, 5B242
 Gonzalez-Quiroga, G., 6D292
 Gonzalo, M., 9H41
 Gonzalo, R., 1J44
 Good, M. L., 7B58
 Good, S. S., 5D102
 Good, T., 4J19
 Goode, S. R., 5J64
 Goodland, F. C., 8D215
 Goodley, P. C., 10J116
 Goodman, A. G., 8G18
 Goodwin, A. E., 3H79
 Goodwin, J., 4D306
 Goodwin, M., 9D55
 Goody, R. S., 7D222
 Goosier, C., 5J11, 7H68, 12B103
 Goold, L., 2H1
 Gooley, R., 10A4B
 Goossens, W., 9D225
 Gorbatyuk, E. T., 11J127
 Gorbach, H., 12B64
 Gorbenco, F. P., 7B41
 Gorboson, T. V., 5H95
 Gorbunov, A. I., 9B52
 Gorbunov, V. F., 3B16
 Gorbunova, O. F., 9C72
 Gorbunova, T. S., 4B22, 10B90
 Gorchakov, L. N., 1J115
 Gorchakova, E. V., 8B141
 Gorchein, A., 11D173
 Gorczynska, K., 10B55
 Gordey, S. E., 2D4
 Gordon, E. M., 11D245
 Gordon, G., 8B103, 12H68
 Gordon, H. L., 4A28
 Gordon, S., 9D262
 Gordus, A. D., 5J174
 Gore, M. G., 2D173, 2D174
 Goretti, G., 6J85
 Goretzki, H., 11B90
 Gorham, J., 12D158
 Gori, F., 5D162
 Gorin, N., 7F76
 Gorina, D. O., 4B118, 4B137, 9B100, 9B131
 Goritskaya, E. F., 7H67, 10H79
 Gorka, A., 1D210
 Gor'kovaya, G. P., 8J14
 Gorkach, V. F., 4B163, 10B72
 Gorlanova, O. V., 4B74
 Gornostaeva, T. D., 1B29, 1B97
 Gorog, S., 4E64B, 8C6
 Gorokhova, V. G., 5D121, 5D123, 6D154
 Goromaru, T., 6E50
 Goroshchenko, Ya. G., 9B122
 Goroshko, G. G., 9B172
 Gorse, R. A., jun., 11H14
 Gorshkova, L. I., 9E21
 Gorski, Z., 11B149
 Gorsky, J. E., 4D71, 6D66, 9D3, 12D56
 Gorton, A. D. T., 3J122
 Gorvin, A. C., 10J109
 Goshar, D., 4D304
 Goshi, Y., 10B178
 Goss, P. E., 7D88
 Gosset, G., 9D78
 Gossett, C. R., 12J143
 Gosteva, L. I., 8H79
 Gostomczyk, M. A., 7B97
 Goswami, S. D., 4B38, 4B42, 4B152, 6B42, 10B158
 Gotfred, L., 5F24
 Gotlib, V. A., 6J45
 Goto, J., 4D201, 7D150
 Goto, K., 1J64, 2A17, 3B38, 4B198
 Goto, M., 2D163, 3J39, 4J34, 4J39
 Goto, N., 4D201
 Goto, S., 3D213, 3J39, 9H33
 Goto, T., 9B43, 10D260
 Goto, Y., 8C81, 10B88
 Gotschlich, E. C., 9D199
 Gottarelli, G., 8E9
 Gottesmann, P., 11F16
 Gottmann, G., 12E36
 Gou, W., 10D31
 Gough, T. A., 3D138, 6E9, 9E33
 Gould, B. J., 8D207, 12D2
 Gould, J. H., 4F1
 Gould, M. R., 10D166
 Goulding, K. W. T., 6G11
 Goulle, J. P., 3D47, 12D94
 Gourdon, F., 5H17
 Gourisse, D., 5B259
 Gourley, R. E., 3J17
 Goverde, B. C., 8D208
 Govindaraju, K., 6A4
 Govorunova, N. N., 12H16
 Gowda, A. T., 4B182, 5B252, 10B147, 12B162, 12B170, 12B172
 Gowda, B. T., 4B100, 4C31
 Gowda, H. S., 1B135, 4B182, 5B251, 5B252, 7B132, 8E47, 9B164, 10B147, 12B38, 12B162, 12B170, 12B172
 Gowda, N. M. M., 4B100, 4B182, 5B252, 12B170, 12B172
 Gower, J. L., 10J39
 Gowing, H. S., 4D50
 Goya, S., 6C7
 Goyal, V. K., 11B52
 Gozard, J. P., 5J37
 Gozzo, M. L., 4D270, 8A13
 Graben, N., 9D206
 Graber, H., 5D53
 Graber, B., 5J144
 Grabov, P. I., 6J115
 Grabowski, G. A., 9D258
 Grachev, I. D., 9A33
 Grachev, M. A., 1J23, 11J29
 Graciani Constante, E., 5F58
 Gracy, R. W., 3D277, 5D179
 Gracza, L., 12E15, 12E17
 Graddon, A. D., 8J67
 Gradil, I., 11C7
 Gradszkova, N. A., 1B68
 Grady, M. M., 9B88
 Graeser, H., 7D244
 Graham, D., 6D223
 Graham, D. J. M., 2D68
 Graham, J. A., 1B156, 11J105
 Grahneis, H., 11H61, 11H63
 Gralher, M., 1B74
 Grallath, E., 11B40, 12H21
 Gramari, D., 3B62
 Grambole, D., 12B30, 12B130
 Gran, G., 2H41
 Grande, P., 5D236
 Grandgirard, A., 9F52, 10F73
 Grandy, D. W., 9C64
 Graner, C. A. F., 4D45
 Grange, D., 11H76
 Granger, N. A., 8G18
 Granit, L., 9D61
 Granov, A., 7E41, 7E42
 Granstroem, E., 6D168
 Grant, D. F., 5H77
 Grant, G. G., 3G23
 Grant, H. G., 9C39
 Grant, R. G., 4G31
 Grant, W. B., 4H8
 Grases, F., 3B27, 7B112, 11B24, 11B49, 12B37
 Grasselli, J. G., 1A12B
 Grasserbauer, M., 1J91, 4B193, 7B10, 7B11, 7H2, 7J102, 11B90, 11B101, 12B91, 12B184, 12H1
 Grasshoff, K., 4H88B
 Grataroli, R., 8D248
 Gratton, E., 1J75
 Gratzfeld-Huesgen, A., 2J57
 Grau Malonda, A., 6H15
 Graven, W. M., 2J90
 Graves, D. J., 5D241
 Graves, P. E., 7D47
 Graves, S. W., 8D35
 Gravier, R. R., 3D35
 Gray, A. L., 2J98
 Gray, A. P., 9A5B
 Gray, B. A., 8D3
 Gray, C. J., 10D256
 Gray, D. M., 9J82
 Gray, N. A. B., 4A27
 Gray, S. M., 3D121
 Gray, V., 9C14
 Graydon, J. W., 10H66
 Grayeski, M. L., 12J31
 Grazia del Chicca, M., 10E14
 Grazulienė, S., 1B103, 1B125, 6B182, 12B185
 Grebennikova, O. D., 1B163
 Grebenshchikov, N. I., 3B55
 Grechushnikov, B. N., 6J151
 Greco, G. T., 8E4
 Greed, L. C., 10D204
 Greeley, H. P., 8J50
 Green, A., 8H42
 Green, B. N., 4J147
 Green, D. F., 10B78
 Green, G. M., 6D313
 Green, K., 4D1, 9D12
 Green, L. W., 12B70, 12B71
 Green, N. M., 4C8
 Green, R. B., 1B114, 4J117, 9J60
 Green, R. J., 10D48
 Greenbaum, L. M., 11D179
 Greenberg, R. J., 2H32
 Greenblatt, D. J., 1D52, 2D63, 3D68, 6D93, 12D80, 12D87
 Greene, B., 5B170, 9H46, 11J141
 Greene, D. S., 6D73, 8E61
 Greenfield, H., 7F67
 Greenfield, S., 8J98
 Greenhalgh, R., 1G16, 9G5
 Greenhow, E. J., 2J46, 3A8
 Greenland, R. D., 8D146
 Greer, R. T., 5C78
 Gregg, M. R., 8D66
 Grego, B., 3D157, 3D158
 Gregoire, D. C., 12J93
 Gregor, I. K., 6C5, 7J101
 Gregorova, E., 2J103
 Gregorowicz, Z., 5J47
 Gregory, E. D., 1H16
 Gregory, J., 6D164
 Gregorzik, H., 9H70
 Grehn, L., 4E29
 Greibrokk, T., 7D129
 Greizerstein, H. B., 2D70
 Grekin, R., 8D220
 Grekov, A. P., 3C20, 9C34
 Grekova, I. M., 1B54
 Grekovich, A. L., 11J136
 Gren, V. V., 10B96
 Grennfelt, P., 6H36
 Gressel, J., 8D212
 Gressner, A. M., 1D84
 Gretch, F. M., 10F15
 Greuet, D., 4D165
 Greulich, D., 9D158
 Gribov, L. A., 1B110
 Gridina, N. N., 10J141
 Griepink, B., 4A8, 5A16, 5G20, 9A15, 12H2
 Griesemer, E. C., 4D112, 12D59
 Griest, W. H., 3H21, 4D141, 5B280
 Grieve, M. C., 1C35
 Griffin, D. A., 1G19
 Griffin, D. S., 11D98
 Griffin, H. C., 6B70
 Griffin, K. B., 12B102
 Griffin, M., 9D179
 Griffin, M. P., 12J171
 Griffin, R. M., 7F63
 Griffin, T. J., 5J126
 Grifflit, Kh., 1B85, 3B95
 Griffith, D., 6D164
 Griffith, G. W., 7C97
 Griffiths, J. B., 1B157
 Griffiths, L. R., 5D242
 Griffiths, N. M., 7F43
 Griffiths, P. R., 5J28, 5J113, 6J59
 Griffiths, W. D., 12J179
 Griggs, L. J., 7D88
 Grigolo, B., 9D145, 10D236
 Grigorenko, F. F., 4B57
 Grigor'ev, N. N., 5J109, 6B67
 Grigor'ev, V. A., 1A5
 Grigor'eva, M. F., 6B168, 7B148, 9B151, 12B56
 Grigoryan, L. A., 7B136
 Grill, D., 5H25
 Grim, W. M., 9E34, 11J105
 Grimalt, J., 3C43, 6H80
 Grimec, R., 2C59
 Grimes, B. J., 6J110
 Grimmer, G., 11C36
 Grimova, J., 11D86
 Grimsrud, E. P., 3C36, 8C44, 12J73
 Grin, N. V., 12H16
 Grinberg, A. N., 9B182
 Gringorten, J. L., 5J148
 Grinwis, A., 7G15
 Grisar, R., 2J87, 12H18
 Grishko, V. I., 4B105, 9J83
 Grisley, D., 12D238
 Grisley, D. W., jun., 4D253
 Gritsenko, S. V., 3E51
 Gritseva, Z. Kh., 5C5
 Gritsyna, V. T., 7B118
 Grob, G., 4J65
 Grob, K., jun., 1J48, 2J42, 2J43, 4J65, 5J53, 5J53, 6J65, 10H66, 11F37, 11J51
 Grob, R. L., 4C5, 10J43, 10J44, 12J30
 Grobecker, H., 9D48
 Grobelski, Z., 1B18, 5J91
 Groblicki, P. J., 7H40
 Grodzins, L., 12J83
 Groetsch, H., 6D303
 Grof, J., 12J45
 Grohlich, D., 5D30
 Groleau, R., 12B58, 12J132
 Gromadzinska, J., 8D30
 Gromkovskii, A. I., 6F24
 Gromova, M. I., 3B50
 Gronhagen-Riska, C., 12D237
 Gronroos, M., 5D36
 Grorud, R. B., 4G32
 Gros, P., 7D76
 Grosch, W., 4F23, 5D131, 10D129, 10F52
 Grosjean, D., 10H33, 12J3
 Gross, D., 9C67
 Gross, H. J., 9H34
 Gross, M., 4J109, 8D221, 10F6
 Gross, M. L., 2D146, 6F26, 9C69
 Gross, T., 7D75
 Gross, W., 1D177, 6D266
 Grosse, H.-J., 4H9
 Grossi, M., 9F44
 Grossman, P. D., 4D5
 Grossmann, I., 2C52
 Grossowicz, N., 11D253
 Grote, W. A., 6J53
 Groucutt, C., 3D6
 Group for Standardization of Methods in Eicosanoid Research, 11D134
 Grove, J., 11D67
 Grover, M. R., 4G18
 Grover, Y. P., 2H10
 Grozdov, A. G., 8C88
 Gruber, H., 10H73, 12J153
 Gruber, W., 9D133
 Gruchala, L., 5C21
 Gruchan, K., 12B50
 Gruenauer, M. H., 6G33
 Gruenbauer, H. J. M., 4J40, 10C67
 Gruendler, P., 1J117, 4B20, 5J187
 Gruetzmann, K.-D., 3D261
 Grundmann, H., 12D210
 Grundy, S. M., 5D212
 Grunenberg, D., 4B160
 Grushina, N. V., 10B14

- Grushka, E., 4J84B, 8D159
 Gruberger, B., 9C15
 Gruzdeva, A. E., 1C13
 Gruzskova, N. A., 4H54
 Gryczko, C., 8D63
 Grzegorzka, E., 2B23, 2B28
 Grzmił, B., 5G19
 Gu, H., 6B185
 Gu, L., 11J122
 Gu, T., 8H84
 Gu, W., 12J75
 Gu, X. R., 4D140
 Gu, Y., 5B63, 8E23
 Guan, C., 5D159
 Guan, D., 10D24
 Guan, J., 12B76
 Guan, Q., 9C56
 Guarido, C. G., 10B5
 Guarini, G., 8J7
 Guarniera Fenech, C., 12E19
 Guay, D. R. P., 3D58, 6D207
 Gubenko, E. P., 3B94
 Guberska, J., 2C2, 5C47
 Gudat, J. C., 1D16
 Gudefin, A., 5C90
 Gudehn, A., 8H31
 Guder, W. G., 1D182, 9D251
 Gudernatsch, H., 8H39
 Gudzenko, L. V., 7B160
 Guebitz, G., 3D34, 10C10
 Guedelhoefer, P., 7H16
 Guenier, J. P., 11H23
 Guennec, J. Y., 8D86
 Guenther, E., 9D245
 Guenther, F. R., 7C13, 8C51
 Guenther, H. O., 5F23
 Guenther, J. G., 10D177
 Guenther, U., 4A26
 Guermeur, C., 4D323
 Guerra, M. C., 12E16
 Guerrant, G. O., 6D286, 12D111
 Guerre, J., 4D47
 Guerrero Montes, M. A., 5B155
 Guerrieri, A., 9J87
 Guesdon, J. L., 5D10
 Guevremont, R., 5J92, 7J29
 Gug, V., 10B51
 Gugler, R., 6D117
 Guha, K. C., 9F55
 Guhlmann, A., 3G20
 Guichardant, M., 2D150
 Guidarini, D., 11J12
 Guidi, G., 3D50
 Guilbault, G. G., 3J109, 4H35, 4H38, 5D3, 7J132
 Guilhaus, M., 6C5, 7J101
 Guiliano, M., 11C45
 Guillemin, M. P., 5H11
 Guillermo, R., 6H38
 Guillot, P., 6H7
 Guilluy, R., 1E20
 Guilmette, R. A., 11D19
 Guineau, B., 10C83
 Guinn, V. P., 6H47
 Guinot, H., 6B161
 Guiochon, G., 1J43, 2C35, 3J26, 4C51, 6J69, 6J80, 7J64, 9J17, 11A20, 12J29, 12J32
 Guiraud, G. O., 9H6
 Guiraud, A., 5B13
 Guironnet, A., 10F12
 Guissou, P., 6D87
 Gujrathi, S. C., 12J132
 Guletskii, N. N., 6B52, 7B139
 Gulick, W. M., jun., 2B86
 Gulizia, B. J., 1D74
 Guloval, M. C., 1D8
 Gumbmann, M. R., 12F14
 Gumenyuk, A. P., 11B127
 Gunasingham, H., 1J113, 10C45
 Gunawardhana, H. D., 1B77
 Gunduz, G., 1D8
 Gunn, A. M., 5H66
 Guns, M. F., 1D30
 Gunter, B. J., 1H15
 Gunter, J. M., 8E36
 Gunther, F. A., 8G16
 Gunz, D., 8H421
 Guo, D., 3B74
 Guo, J., 8J113
 Guo, M., 9B147
 Guo, N., 4B81, 6B80, 9B67
 Guo, X., 5H49, 12E21
 Guoliang, J., 2B12
 Guoth, J., 12J45
 Gupta, A. P., 9J44
 Gupta, B. B., 7F57
 Gupta, B. N., 12J78
 Gupta, D., 4C29
 Gupta, P. C., 7B158
 Gupta, P. L., 11C41
 Gupta, P. N., 4B12
 Gupta, R. K., 6F25
 Gupta, R. N., 1D61, 7D158, 9D70, 10D90, 12D57
 Gupta, S., 2D203, 10D194
 Gupta, S. P., 5D215
 Gupta, V. K., 2C61, 2H68, 3H13, 4H28, 4H77, 7H45, 9H22, 10H26, 10H56, 11H16, 11H24, 11H43, 12B66
 Gupte, D. D., 11E27
 Gur, J. P., 1E14
 Gureeva, E. G., 4B178
 Gur'ev, I. A., 2E38, 5E48, 7C26, 8C15
 Gur'ev, S. A., 5H8
 Gur'eva, Z. M., 5E48
 Gurley, B. J., 10D75
 Gurley, L. R., 3D190
 Gurvich, V. B., 5H8
 Gurzhii, T. V., 5E28, 11E2
 Gusakova, N. N., 1B110
 Guseev, Yu. E., 5J7
 Guseinov, B. M., 4E15, 4E60
 Guseinov, I. K., 6B116, 9B70, 11B113
 Guseinov, Kh. I., 12B98
 Gusel'nikova, V. M., 11D26
 Gusev, S. I., 5B244
 Gusovsky, F., 9D114
 Guss, S. P., 7D49
 Gussman, R. A., 6H5
 Gustafsson, S., 7D156
 Gustafsson, S. A., 7D145
 Gustavsson, A., 11J94, 12J88
 Gustavsson, B., 4D131
 Gustavsson, I., 6J187
 Gutenberger, S. K., 7D148
 Guterman, H., 4J167
 Guthenberg, H., 6H91
 Guthrie, A. J., 5D95
 Guthrie, E. J., 6J84, 11J24, 12J37, 12J43
 Gutierrez, A. G., 6H103
 Gutman, D., 4B143
 Gutman, E. B., 1D38
 Gutsol, A. D., 4H59
 Gutsu, E. V., 9E15
 Gutteridge, C. S., 9A36
 Guven, K. C., 4E20, 11E49, 12E20
 Guy, A., 9D233
 Guyon, J. C., 5G32, 7G25
 Guzev, I. D., 11B1
 Guzhavina, E. L., 10B85
 Gvakhariya, V. G., 11J85
 Gvozdoich, T. N., 4C35
 Gy, P., 6J3
 Gyenge, R., 10D158
 Gyllenhaal, O., 3C5
 Gyure, W., 1D155
 Gyurjan, I., 3D279
 Haacker, K., 7G19
 Haag, G. L., 10B78
 Haak, K. K., 3J36
 Haapala, K., 2H36
 Haas, E. W., 11B164
 Haas, H. F., 11D18
 Haas, J. D., 12D116
 Haase, W., 9D197
 Haasnoot, W., 7G21
 Habash, T. F., 1E19
 Habboush, A. E., 2C46
 Habelt, K., 6D310
 Haberer, K., 8H40
 Habraken, F. H. P. M., 4B203
 Habrioux, G., 5D148
 Hachey, D. L., 4D42
 Hack, W., 4B4, 9H1
 Hackathorn, D. R., 3D274
 Hackler, L. R., 1F1
 Hackmann, E. R. M., 9E37
 Hackzell, L., 7J31
 Hadac, J. P., 3D56
 Hadacova, V., 4D151
 Haddad, J. G., 3D237
 Haddad, P., 11B2
 Haddad, P. R., 7C36
 Haddadin, M., 8D75
 Haddock, J. D., 2H59
 Hadeishi, T., 2J71, 5C70, 7J78, 12H8
 Hadjigeorgiou, P., 7E15
 Hadjiioannou, T. P., 1F18, 2B65, 4B33, 4B51, 4D210, 6D13, 8B93, 9B104, 9D147
 Hadzija, B. W., 7E27
 Haeckel, R., 3A11
 Haefelfinger, P., 8D71
 Haefner, M., 9G16
 Haegle, E. O., 1D108, 7D136, 9D133
 Haeger, L., 12C75
 Haegh, T., 6H91
 Haemmerli, A., 7J131
 Haensel, R., 1J74
 Haerdi, W., 7D99, 7H66
 Haesen, G., 8F15
 Haessler, H., 1D210
 Haessler, O., 8J118
 Hafez, M. B., 11B45
 Hafez, N., 11B45
 Hafif, L. A., 3D176
 Hafkenscheid, J. C. M., 5D237, 8D31, 8D227
 Haerner, G., 8D221
 Haga, M., 1J109
 Hagan, J. J., 4D259
 Hagardorn, A. N., 2D120
 Hagel, L., 10J25, 10J48
 Hageman, J. H., 9D267
 Hageman, L. R., 3C36
 Hagemeyer, E., 4J26, 7D223, 9D237
 Hagen, D. E., 11A31
 Hagenah, W.-D., 4J119
 Hagenmaier, H., 12H103
 Hager, W., 10D116
 Hagger, R., 6H40
 Hagihara, B., 8J35
 Haginaka, J., 10D68
 Haginawa, J., 7E4
 Hagiwara, K., 6D220, 9C46
 Hagiwara, T., 11E11
 Hagler, W. M., jun., 7G2
 Hagopian, M., 10D108
 Haguenoer, J. M., 8D61
 Hah, Y. C., 8E41
 Hahn, D. H., 1G2
 Hahn, E. F., 6D76
 Hahn, J. U., 4H56, 4H57
 Hahn, S. K., 11F28
 Hahnel, R., 10D204
 Hahnvajanawong, V., 12D68
 Haigh, J. M., 4D115
 Haikonen, M., 9D36
 Haile, C. L., 12H105
 Haines, J., 12B176
 Hais, I. M., 10E7
 Haisch, U., 4J119
 Hajek, M., 3C52
 Hakala, E., 5H24, 12D41
 Haken, J. K., 2C27, 3B22, 3H14, 3J51, 4C24, 4C99, 6C25, 7J61, 9C19, 9C81, 11G34
 Hakoda, Y., 1J109
 Haky, J. E., 2E49
 Hala, J., 5B92, 5B162
 Halamek, E., 1C10
 Halas, S., 1B66
 Halasi, R., 5G37
 Halasi, T., 5G37
 Halasz, I., 5J22, 11C43
 Halasz (nee Ignath), Z., 2E26
 Halbert, M. K., 11D84
 Haldar, A. K., 6E33
 Haldar, B. C., 12B153
 Hale, P. W., jun., 5D63
 Halic, M. R., 12D160
 Halilamian, C., 8F35
 Halirova, D., 8B119
 Hall, D. D., 9J108
 Hall, G. E. M., 12J93
 Hall, G. S., 1D23, 11D11
 Hall, J. E., 4J117
 Hall, J. F., 3G13
 Hall, K., 6D97
 Hall, L. M., 1D192
 Hall, L. R., 3D45
 Hall, N. P., 3A5
 Hall, P. M., 8D207
 Hall, R. E., 9H88
 Hallak, A. B., 4J92, 4J93
 Hallas, M., 8J12
 Hallauer, G. D., 4D229, 9D141
 Hallenbeck, P. C., 11D202
 Hallensleben, M., 3J72
 Haller, A., 10E29
 Hallert, C., 10D171
 Hallgren, J. E., 9C78
 Hallinan, F. M., 3D177
 Hallock, R. B., 10J5
 Hollowell, J. R., jun., 5J114
 Hallworth, M. J., 7D60
 Halmeikoski, J., 4E47, 4E48
 Halonen, T. O., 10D259
 Halouma, A. A., 2B46
 Halsall, H. B., 5D9
 Halstead, E. H., 7G14
 Halvarson, H., 4C82
 Ham, N. S., 5J62
 Hamada, T., 1D70, 5B254
 Hamada, Y., 7D155
 Hamaguchi, A., 3H31
 Hamaguchi, H., 12J112
 Hamaguchi, Y., 7D4
 Hamann, Y., 10E17
 Hamano, T., 8F24
 Hambleton, P., 3J6
 Hambrick, G. A., III, 12H86
 Hameed, R., 1H4
 Hamid, A., 10H10
 Hamidzadeh, Z., 3E37
 Hamielec, A. E., 3J32
 Hamilton, S. D., 1D105, 9D115
 Hamilton, S. E., 4H72
 Hamlin, C., 4D271
 Hamlin, C. R., 9D38
 Hamm, R., 11F16
 Hamm, U., 1B58
 Hammad, F. H., 9B85
 Hammaker, R. M., 11J105
 Hammarstrom, M., 1D6
 Hammer, T., 5D201
 Hammond, B. R., 12D149
 Hammond, E. G., 5F53
 Hammond, P. M., 2D76, 4D69, 5D61
 Hammond, R. P., 4D32
 Hammond, V. A., 9D159
 Hammons, J. L., 11J100
 Hamon, C., 12D47
 Hamon, M., 5E58, 8C21, 8E88
 Hampson, J. W., 4C72
 Hampton, C. V., 5C71
 Hampton, J. M., 9E57
 Han, B., 8H98, 12B94
 Han, H., 7H4, 12H95
 Han, S., 2D8
 Han, X., 9B30
 Hanada, K., 5D254
 Hanai, T., 6C24
 Hanamura, S., 6D36, 11J96
 Hanash, S. M., 3D195, 5D215
 Han Chang Sop, 5B238
 Hancock, K., 3D180
 Hancock, W. S., 5D196
 Handa, T., 9H33
 Handa, Y., 11D143
 Handley, G., 9D229
 Haneke, A. C., 8E38

- Hangaard, J., 1D222
 Hania, B., 11B71
 Haniff, I. M., 1G17
 Hanika, G., 11G33
 Haning, R. V., jun., 12D142
 Hanlon, E. A., 11G11
 Hanna, C. J., 12D56
 Hanna, G. M., 12E47
 Hannaker, P., 5H72, 11B155
 Hannes, J., 9D209
 Hannibal, S., 5D117
 Hannifan, M. R., 2B85
 Hannon, W. H., 10D7
 Hanocq, M., 3C18, 5D164
 Hanprasopwattana, P., 2B73
 Hanrahan, L. P., 2H23
 Hanschmann, G., 11H73
 Hansel, J. M., 6B92
 Hanselaer, R., 1D5
 Hansen, B., 2D185, 8D178
 Hansen, E. H., 3H34
 Hansen, G., 1D106, 5J128
 Hansen, J. E., 4D54
 Hansen, J. L., 9D17
 Hansen, K. A., 12H11
 Hansen, L., 10H34
 Hansen, L. D., 5H29, 6H23
 Hansen, M., 5J193
 Hansen, P. W., 12D234
 Hansen, R. G., 8A7, 8A8
 Hansen, S. H., 5J32, 10J28
 Hanson, N. Q., 1D120
 Hanspal, J. S., 4D337
 Hansson, H.-P., 6F64
 Hansson, C., 1D133, 3J16
 Hansson, K.-A., 3D228
 Hansson, L., 3J16
 Hantsche, H., 5J121
 Hao, F., 10D25, 12J158
 Happe, T. M., 1D13
 Hapich, M. L., 12F14
 Haque, A., 12D192
 Haque, I. U., 11E6
 Haque, S., 6C28
 Hara, H., 10B178
 Hara, I., 7D202
 Hara, K., 12D167
 Hara, M., 1E34, 8B21
 Hara, S., 3D146, 4D215, 5J24, 5J29, 8J24, 8J26, 9D54
 Hara, T., 2C5, 2D194, 5D204, 6D249, 9C10, 11D205, 12D190
 Hara, Y., 3D257
 Harada, H., 4C74, 6D157
 Harada, K., 1F11, 8E32, 11D143
 Harada, M., 10F35
 Harada, T., 7D253, 10J99
 Harada, Y., 10B88
 Haraguchi, H., 1H39, 2D220, 6D210, 7H60, 8B54, 9F31, 9J104
 Haraguchi, I. H., 4H18
 Haraguchi, T., 2E40
 Harangi, J., 8C71, 8E40
 Harano, Y., 6D165
 Harbottle, G., 7B150
 Hard, T. M., 4J130
 Hardee, G. E., 2D166
 Hardin, E. D., 9D9
 Harding, S. E., 4D283
 Hardisson de la Torre, A., 12F36
 Hardt, R., 8D125
 Hardy, M., 6D160
 Harff, G. A., 6D252
 Harfield, J. G., 12J177
 Harfmann, R. G., 12J103
 Hargesheimer, E. E., 8D97
 Hargrave, P. A., 3D218
 Hargreave, F. E., 12E50
 Hargreaves, P., 1G18
 Harkonen, M., 1D3, 9D140
 Harley, N. H., 1H6
 Harman, P. D., 10H86
 Harmon, S. H., 5B280
 Harms, U., 6D37
 Harmsen, J., 8H64
 Harnly, J. M., 1D31, 5J93, 9B4, 9B10, 9J94, 10J89
 Haroon, Y., 4D87, 9D242
 Harper, A. M., 10J50
 Harper, C. W., 9J59
 Harper, L. E., 3C68
 Harper, P., 6H40
 Harper, S. L., 7H12
 Harrar, J. E., 7J139, 12C81
 Harrar, M., 1B33
 Harrick, N. J., 6J152
 Harrington, C. A., 8D52
 Harrington, D. E., 5B233, 11C3
 Harrington, G. W., 12C21
 Harris, D. B., 10H7
 Harris, F. M., 7J111
 Harris, I. A., 9D15, 10D18
 Harris, J. M., 3J71, 4B28, 6J153, 7J81
 Harris, J. R., 4G20
 Harris, P., 4D283
 Harris, P. J., 12D113
 Harris, R. B., 5D247
 Harris, R. C., 7D5
 Harris, R. I., 6D245
 Harris, S. C., 3D45
 Harris, S. J., 2D142
 Harris, T. D., 9B188
 Harris, W. C., jun., 5G7
 Harrison, C., 5D89
 Harrison, E. H., 3D255
 Harrison, H. H., 2D191
 Harrison, J., 12J3
 Harrison, J. H., jun., 6D142
 Harrison, N., 4J139
 Harrison, R. M., 3H33, 5H55
 Harrison, S. H., 6D17
 Harrison, W. W., 7J112, 12J127
 Harrold, D. E., 4H85
 Harsanyi, E. G., 3J105
 Hart, G. C., 1J96
 Hart, J. P., 10D246
 Hart, L. P., 10J101
 Hart, S. J., 11D69
 Hartenstein, S. D., 5B4
 Harth, M., 7D22
 Harth, O., 8D221
 Hartkamp, H., 1H25, 4J3, 4J4
 Hartley, R., 4D86, 11D47
 Hartley, R. E., 5B9
 Hartley (nee Dinh), H. N. T., 6C25
 Hartman, M., 10H28
 Hartmann, K., 4C57
 Hartmann, L., 5D208
 Hartung, G., 9H63
 Hartung, J., 7D244
 Hartwick, R. A., 2D221, 4J20, 7D220, 10J29, 11J36
 Harvan, D. J., 11C80, 12J122
 Harvath, P. V., 6H39
 Harvey, D. J., 11D131
 Harvey, K. C., 10J4
 Harvey, M. C., 4J18, 12J23
 Harvey, P. K., 9B82
 Harvey, T. G., 11C44
 Harwengt, C., 10D143
 Harwood, D. J., 3D72
 Harz, H.-P., 5F1, 5F5
 Harzer, G., 6D173
 Harzer, K., 5D52
 Hasan, M. Z., 6H59
 Hasan, T., 3D188
 Hasebe, K., 4B125, 5B153, 10C26, 11H42
 Hasegawa, A., 4C70
 Hasegawa, H., 9B189
 Hasegawa, I., 11D199
 Hasegawa, R., 7D55
 Hasegawa, S., 5D161
 Hasegawa, T., 2H53, 6D159, 6D210
 Hasegawa, Y., 2B33, 9A10, 11C30, 11C47
 Haselberger, C. G., 4D314
 Hashida, S., 7D4, 8D194, 8D196
 Hashiguchi, T., 6B128
 Hashim, B. M., 8E84
 Hashimoto, K., 12E35
 Hashimoto, M., 7D86
 Hashimoto, S., 1H39, 9D68
 Hashimoto, T., 3D187, 3D222, 3J37, 4H62, 4J42, 4J45, 6B46, 6D272, 6J165, 8J35
 Hashimoto, Y., 5H61, 7D1, 8H15, 8H18
 Hashitani, H., 9B101
 Hashizume, S., 10D187
 Haslbeck, F., 5D131
 Hasman, D. A., 4D119
 Hass, J. R., 6J161, 11C80, 12J122
 Hassan, A. M., 4J155
 Hassan, F. M., 11D35
 Hassan, M., 1D147, 5D98, 6D123
 Hassan, M. M. A., 3E8, 3E13
 Hassan, N. Y. M., 1E30
 Hassan, S. M., 7E7, 7E39, 10E3
 Hassan, S. S. M., 1B52, 2D219, 12J166
 Hasse, S., 7F61
 Hasselbeck, G., 9D245
 Hasselmann, C., 9F9
 Hassemer, D. J., 9D183
 Hastie, D. R., 2H14
 Hastings, J. B., 1J81
 Hasumura, S., 12D181, 12D189
 Haswell, S. J., 6H92
 Hata, B., 5D81
 Hata, N., 1D163
 Hatam, L. J., 3D238
 Hatanaka, H., 12E35
 Hatanaka, K., 12D53
 Hatano, A., 6D279
 Hatano, H., 7D213, 7J49, 8C26, 8J23, 12J15
 Hatase, O., 8D190
 Hatch, G. L., 4H68
 Hatcher, M. T., 6C61
 Hatchikian, E. C., 1D199
 Hatcho, N., 5B267
 Hathaway, T. R., 3D274
 Hato, M., 2D34
 Hattori, H., 1D136, 6D102, 6D220, 12D85
 Hattori, T., 1D159, 3H40
 Hattori, Y., 9H77
 Hauck, H. E., 1E7, 2J38, 7D224
 Haug, H.-P., 12H97
 Haug, M., 6D173
 Haug, W., 6G2
 Haukka, M., 11B155
 Haupt, O., 4D18, 5D146, 9D137
 Hauschka, P. V., 9D242
 Hauser, P., 9C24
 Hausmann, E., 5D58
 Havas, J., 9J130
 Havasi, P., 2J36, 3J41
 Havel, J., 8J94
 Havel, M., 9D53
 Haven, G. T., 4D89
 Havens, J. R., 6C44
 Havery, D. C., 7C102, 10F61
 Havezov, I., 2B59
 Havranek, E., 11E30
 Havrilla, G. J., 10J91
 Hawes, E. M., 6D97, 9D66
 Hawley-Fedder, R. A., 6H28
 Haworth, D. T., 9A25
 Hawthorne, A. R., 2H21, 12H37
 Hay, D. L., 1D223
 Hay, J. M., 10D107
 Hay, N., 10D108
 Hayakawa, J., 12E11, 12E18, 12E49
 Hayakawa, K., 4B32, 4B181, 7D30, 8E20
 Hayakawa, M., 9B148
 Hayakawa, T., 1B161, 8B113, 10C60
 Hayakawa, Y., 8C76
 Hayashi, C., 3D104, 4D90, 6D294
 Hayashi, I., 10B178
 Hayashi, K., 8D185, 9D121
 Hayashi, M., 2D161, 4F6, 6J173
 Hayashi, N., 3J39
 Hayashi, R. H., 7D30
 Hayashi, S., 2D16, 4D90, 12D53
 Hayashi, T., 2D162, 4D162, 7D167, 8J97, 10F2
 Hayashi, Y., 3D108
 Hayata, E., 9B17
 Hayes, D. W., 2H2
 Hayes, J. D., 6D297
 Hayes, M., 9J67
 Hayes, M. J., 4J31
 Hayes, T. L., 10H91
 Hayes, W., 7D103
 Haynes, R. B., 1D61
 Hayter, J., 4D77
 Haythorn, P., 1D207
 Hayward, N. J., 12D162
 Hazeltet, T. G. M., 6D103
 Hazra, A. K., 10D193
 He, B., 2A1, 5A5
 He, H., 4B104
 He, J., 6B185
 He, L., 5E15, 9D112, 11E7
 He, M., 6J182
 He, S., 9B133
 He, Z., 3J81, 12B94
 Head, R. J., 11D219
 Headridge, J. B., 8B134
 Heal, G. R., 9J141
 Healey, K., 1D171, 6D59, 11D69
 Health and Safety Executive (UK), 4H14
 Heard, G. S., 8D246
 Hearn, M. T. W., 3D157, 3D158, 3D189, 6D18, 7D181, 11A2B
 Heath, R. T., 8H66
 Heazlewood, V., 4D103
 Heber, F., 9D206
 Heberer, H., 7H8
 Heckenberg, A., 11B2
 Heckingbottom, R., 2B50
 Hecq, A., 7B7
 Hecq, M., 7B7
 Heddle, J. F., 12H100
 Hedge, R. I., 8B4
 Hedgecote, R. L., 1H23
 Hedges, J. I., 12D115
 Hedman, P. O., 5B273
 Hedman, T., 9F47
 Hedrick, R., 9D10
 Heeg, F. J., 4J55
 Heemstra, S., 7J30, 10J33
 Heeschens, W., 5F28
 Heffer, G. T., 12C13
 Hegde, R., 6B32
 Hegenberg, G., 3J75, 6J186
 Hegtermans, E. P. J. M. H., 11D65
 Heick, H. M. C., 4D241
 Heid, H. W., 6D291
 Heidecke, G., 5A35
 Heidebaugh, N. D., 8F30
 Heiden, E., 5J87
 Heider, G. H., jun., 11J133
 Heidrich, G., 6F75
 Heiffer, M., 6D120
 Heijligers, H. J. M., 11J83
 Heikkinen, L., 7E22, 12D78
 Heikkinen, R., 4D185
 Heimler, D., 2D186, 4D219, 8H77, 12D145
 Heineman, W. R., 5B39, 5D9
 Heinemann, G., 10D227
 Heinen, H. J., 5J135, 11D227, 12J126
 Heining, J. A., 9D248
 Heinonen, J. K., 3D230
 Heinonen, P., 3D217
 Heinrich, B., 2B43
 Heinrich, J., 5D245
 Heinrich, R., 2D23
 Heinrichs, T. A., 5J107
 Heinrichson, R. L., 9D172
 Heinz, G., 5F19
 Heise, H. M., 4A25, 5J6
 Heiser, C., 12B30, 12B130
 Heissler, D., 11B156
 Heisz, O., 3J35, 10J65
 Heitke, B. T., 7H58
 Heitz, G., 9B149
 Heitzman, R. J., 3D72

- Hejda, J., 5B72
 Hejda, Z., 9C30
 Hekali, R., 6J22
 Helan, L., 5G25
 Helboe, P., 5J32, 10J28
 Heliolus, T., 12D171
 Helfrich, J. A., 10H39
 Helland, L., 2J109
 Helland, P., 10B175
 Helland, S., 5D224
 Heller, D. N., 3J92, 4J143, 5J128
 Helliwell, K., 6E17
 Hellmann, H., 1H42, 1H43, 4H71
 Hellmann, M. A., 3G12
 Hellwege, H. E., 7J122
 Helliwig, J., 3C70
 Helmi, M. S., 2J79
 Help, K., 9B118
 Helsen, J. A., 10A19
 Helsen, P., 10B175
 Helsen, C., 10J151
 Heltai, G., 5J97
 Helz, G. R., 9H37
 Hemment, P. L. F., 12B82
 Hemmi, H., 11H42
 Hemmila, I., 10D8
 Hempel, K., 9D211
 Hempel, U., 10F28
 Hempenstall, J. M., 9J20, 11E14
 Hendeles, L., 4D66
 Henderson, A. R., 4D300, 6D38, 7D236, 9D43
 Henderson, J. D., 4A32
 Henderson, J. E., IV, 5H85
 Hendrick, M. S., 8J90
 Hendrick, S. A., 9E61
 Hendricks, H. L., 12D84
 Hendricks, E. K., 7D251
 Hendrickson, E. R., 12C73
 Hendrickson, H. S., 7D251
 Henion, J. D., 1J82, 4J32, 6J29
 Henjered, A., 2J62
 Henneberg, D., 10A21
 Hennecke, M., 9D187
 Hennessy, D. J., 12B140
 Hennig, H.-J., 2C76
 Hennigan, G. P., 3F27
 Henning, W., 7F24, 8F9
 Hennion, M. C., 7H62
 Henriot, D., 5B230
 Henriksen, L. M., 3C25
 Henrion, G., 1B19, 1B106, 5B200, 5J190, 6H48, 7B102, 9J30
 Henrion, R., 4D323
 Henrotte, J. G., 5D19
 Henry, D., 4D136
 Henry, D. P., 9D164
 Henry, R. J., 7F83, 12D113, 12F31
 Henry, T. J., 11H17, 12H26
 Henschel, P., 5H97
 Hensley, C. A., 3C55
 Henze, G., 1J119
 Hepel, M., 1E12, 6J188
 Hepler, B. R., 5D176, 11D42
 Heppner, R. A., 6J111
 Herald, C. L., 9D6
 Herance, N., 4D252
 Heras Iniguez, M. C., 4H3, 4H16, 6H15, 6H16
 Herbel, W., 9F7
 Herber, R. F. M., 2A18, 9J95
 Herberg, W.-D., 7C14
 Herbert, P. N., 9D216
 Hercules, D. M., 4J151, 6B40, 7C1, 12B181, 12B182
 Herczeg, A. L., 10H46
 Herden, P., 3D261
 Hergert, I., 8D53
 Herman, M. A., 1F3
 Hermann, A., 5B121, 12B77
 Hermann, E., 1B79
 Hermann, E. A., 2D124, 6D135, 7D104
 Hermann, P., 9D80, 9H7
 Hermans-Lokkerbol, A. C. J., 4J38
 Hermansson, J., 6E35
 Hern, J. A., 2H49
 Hern, J. L., 11D29
 Hernandez, M., 7H53
 Hernandez, O., 2D119, 3D172, 3D256, 11D184
 Hernandez-Artiga, M. P., 10B10
 Hernandez Cordoba, M., 5B166
 Hernandez Hernandez, F., 5B75
 Hernandez Mendez, J., 3D149, 4E44, 5B176, 5B190, 5B242, 12B168
 Hernandis, V., 8B67
 Herod, A. A., 2C51, 8C63, 10H68, 10H69
 Heroff, J. C., 8F16
 Herold, B., 5F17
 Herold, D. A., 7D128
 Herpol-Boremans, M., 2C59
 Herres, W., 4C97, 6F56
 Herrmann, A., 7F23
 Herrmann, E., 5B238, 10B62
 Herrmann, F., 12B30
 Herrmann, G., 9B87, 12H25
 Herrmann, K., 4F13, 5F9, 6F61, 8F12, 9F43
 Herrmann, W., 1D107
 Herscovici, J., 8C30
 Hersh, C. L., 9D234
 Hersh, E. M., 8D85
 Hershey, J. W. B., 11J42
 Hershman, J. M., 10D199
 Hertel, K., 5F32
 Hertz, H. S., 12D150
 Herve, S., 3D217
 Herve-Bazin, B., 7C99
 Herzberg, A., 5J98
 Herzmann, H., 3D151, 10D148
 Herzog, G., 4B154
 Herzog, H., 7J40, 8J65
 Herzog, W., 11J107
 Herzschuh, R., 7D166
 Hesch, R.-D., 5D195
 Hesser, D. W., 8D222
 Heslop, C., 2B50
 Hess, B., 8D71
 Hess, K. R., 12J127
 Hess, M., 7C96
 Hesselius, G. U., 8C4, 11G4
 Hesslein, R. H., 10H46
 Hester, R. E., 1J95B, 5A1B
 Hetherington, E. L. R., 1B104
 Hetper, J., 12C64
 Hetzel, F. W., 2D11
 Heuck, C.-C., 1D180
 Heumann, K. G., 1H33, 12H63
 Heusser, G., 12B29
 Hewedi, F. M., 4F45
 Hewins, M., 11J10
 Hewitt, G. F., 6J110
 Hewitt, I. J., 5B163, 5B202
 Hey, M. J., 5C88
 Heydorn, K., 10D26
 Heyerdahl, E. K., 11H14
 Heykants, J., 7D85
 Heyndrickx, A., 3D57, 7J58, 9D26
 Heywood-Waddington, D., 9J14, 10D11
 Hibi, K., 8J18
 Hibi, N., 4D329
 Hichens, M., 12D237
 Hicho, G. E., 5A14
 Hickman, D. A., 7B150, 7B151
 Hicok, W. C., 4D197
 Hidaka, T., 12F10
 Hidalgo, I. J., 8D65
 Hidalgo Hidalgo de Cisneros, J. L., 12F38
 Hideko, U., 4C71
 Hidiroglou, M., 12D219
 Hiebert, A. G., 12H52
 Hiebel, J., 10F24
 Hieftje, G. M., 1J69, 3J69, 4D7, 5J42, 5J90, 6J137, 6J140
 Hieke, H., 10J81, 10J82
 Hiermann, A., 10E15
 Hietanen, E., 4D264
 Hifumi, S., 3D120
 Higashi, K., 9C46
 Higashi, T., 5H21
 Higashikuze, H., 8E20
 Higashino, K., 1D173
 Higgins, C. E., 4D141, 5B280
 Higgins, I. J., 12J164
 Higgins, T. N., 10D87
 Higham, D. F., 10D3
 Hight, S. C., 4F33
 Higuchi, H., 3D266, 12H56
 Higuchi, S., 9C33
 Higuchi, T., 4D130, 7D132, 9D47
 Hiirio, K., 1B98, 6H67, 7H39, 8B80
 Hijikata, Y., 12D167
 Hikal, A. H., 3D42, 5E32
 Hikasa, Y., 9H78
 Hilbert, J. M., 11D76
 Hilderbrand, D. C., 2D45
 Hildingsson, L., 8J117
 Hileman, F. D., 5C54
 Hilge, V., 3H43
 Hilgers, H., 3J24
 Hilinski, E. F., 4J99
 Hill, A. R. C., 10G25
 Hill, B., 6D253
 Hill, G. R., 11C52
 Hill, H. A. O., 12J164
 Hill, H. H., jun., 1C12, 4J77, 6G28, 6H30
 Hill, J. O., 2D43, 5C44, 8C29, 9H74
 Hill, N. P., 6H104
 Hill, P., 6C26
 Hill, P. G., 3D199, 6D253
 Hill, R. E., 2D66
 Hill, R. H., jun., 4D268
 Hill, R. P., 6D253
 Hill, W. B., jun., 2C13
 Hillbom, E., 2H40
 Hille, J., 9J57
 Hillebrand, M. T. J., 2C80
 Hillenkamp, F., 5J135
 Hillery, P., 12J142
 Hillman, D. E., 11C37
 Hillman, R. E., 12D36
 Hills, J. H., 2C9
 Hills, L. P., 9D21
 Hilpert, K., 12D27
 Hilton, J., 3H47
 Hiltunen, R., 4D144, 4J57
 Hiltz, H., 7D221
 Himmel, M. E., 3C64
 Himpel, F. J., 1J57
 Himuro, A., 4D205
 Hinckley, D. A., 5J107
 Hinderberger, E. J., jun., 11B158
 Hindriks, F. R., 4D35
 Hinkel, J.-P., 11D158
 Hinkkanen, A., 3D233
 Hinkley, J. E., 3D123
 Hino, A., 5C53, 8J31, 9J31
 Hinshaw, J. V., jun., 6J78, 8J54
 Hinsvark, O. N., 9D89
 Hinton, I. G., 8C89
 Hippe, Z., 4C3
 Hirai, H., 4D329
 Hirai, S., 3C47
 Hirai, Y., 5D246
 Hiraide, M., 2H35, 2J4
 Hiraishi, J., 2A16
 Hiraiwa, H., 10F51
 Hiraiwa, M., 2B72
 Hirakawa, A. Y., 2D162, 11J25
 Hiraki, H., 4B32
 Hiraki, K., 8H58, 9B41
 Hiraki, T., 10D45
 Hiramatsu, R., 6D193
 Hirano, C., 11G42
 Hirano, H., 5D246
 Hirano, K., 5D251, 8D41
 Hirano, S., 3E23, 7H51
 Hiraoka, N., 6D237
 Hiraoka, S., 2B11
 Hirashima, N., 3H48
 Hirashima, T., 7C88
 Hirata, K., 4F36, 7J96
 Hirata, Y., 3J13, 3J14
 Hirayama, C., 9J34
 Hirayama, H., 6D96
 Hirayama, T., 8F3, 9F53
 Hirling, D. A., 9D189
 Hirokawa, K., 7B60, 9A8, 12B44
 Hirokawa, T., 9D73
 Hirose, A., 2J22, 11C26
 Hirose, S., 2D161, 5D226, 6D281, 7D237, 8D242, 9D255, 10D260, 11D217
 Hirose, Y., 3F26
 Hiroshima, O., 8D224, 8J36, 11D223
 Hirota, K., 6D128, 9D194, 12D174
 Hirsch, P. B., 4B8
 Hirschfeld, T., 9H35, 11J103
 Hirsh, J., 9D25
 Hirvisalo, E. L., 7D119
 Hisada, K., 8F10, 10D45
 Hisamatsu, M., 3D127
 Hische, E. A. H., 9D253
 Hischerhuber, C., 10F48
 Hise, M. K., 7D165
 Hitchcock, C. H. S., 1D36
 Hitchman, M. L., 7D186, 10G26
 Hites, R. A., 4C64
 Hitosugi, M., 11H9
 Hjelm, N. M., 6D250
 Hjerten, S., 3D184, 5J45, 9J22, 10D190
 Hjorth Toennesen, H., 6F20
 Hlavacek, I., 1B122, 6B160
 Hlavackova, I., 1B122
 Ho, B. C., 1D106
 Ho, C.-T., 6F36
 Ho, J. S. Y., 11H57
 Ho, L. T., 5D190
 Ho, M. H., 4H38
 Ho, P. C., 4D103
 Ho, S. S. J., 8C39
 Hoagland, R. J., 11D56
 Hobart, D. E., 7J122
 Hobbs, P. J., 6B26
 Hobkirk, R., 9D246
 Hobo, T., 5H60, 6J64, 10H62
 Hobson, J., 8F57
 Hobson-Froehock, A., 2F18
 Hocke, I., 6B65
 Hocking, T. J., 2B86
 Hockridge, M. E., 6E11
 Hocquaux, H., 8J93
 Hoesen, V., 8H78
 Hodges, D. J., 2D32
 Hodges, R. S., 3D162
 Hodgson, J., 6H19
 Hodgins, J. C., 5D177
 Hodgins, L. W., 4G9
 Hodgkinson, S. C., 7D194
 Hodgson, J. C., 4J161
 Hodgson, M., 8B128
 Hodisan, T., 1J42
 Hodoouchi, K., 9B112
 Hodgejarv, H., 9B117
 Hoebbel, G., 4E37
 Hoeck, A., 5D16
 Hoede, D., 2D39
 Hoeflich, L. K., 7B58
 Hoeland, W., 9B178
 Hoenderdos, A., 9D161
 Hoenders, H. J., 1D151
 Hoening, H.-J., 7H16
 Hoenig, M., 3D21
 Hoepfner, G., 3J83
 Hoerder, M., 12D238
 Hoes, R. M., 6C31, 10J75
 Hoetzl, D., 9D243
 Hoeylandskjaer, A., 5D66
 Hoffbauer, M. A., 8B140
 Hoffelt, J., 11D37
 Hoffer, E. M., 9H19
 Hoffer, J. M., 7B131
 Hoffman, D. J., 4D95, 6D116
 Hoffman, G. L., 9D183
 Hoffman, J. F., 4D34
 Hoffman, N. M., 3J79

- Hoffman, P. A., 9A24
Hoffman, P. G., 6F63
Hoffman, T. J., 12B136
Hoffman, W., 2D235
Hoffmann, B., 8F25, 12D135
Hoffmann, B. W., 6D51
Hoffmann, D., 1D75, 2B43, 8D157
Hoffmann, E., 4H17, 6J135, 9J101
Hoffmann, G., 2E1
Hoffmann, H.-J., 12D44
Hoffmann, P., 4J94, 6C49, 11B59
Hoffmann, S., 9D30, 9J58, 12J64
Hoffmann, A. F., 3D123, 6D164, 9D150
Hofmann, B., 7D179
Hofmann, F., 8D234
Hofmann, J., 1J16, 7D179
Hofmann, R., 11B164
Hofmann, T., 4J94, 11B59
Hofmanova, A., 6E29
Hofreiter, B. T., 4D197
Hofschreuder, P., 10H6
Hofstadter, R. A., 10H5
Hogen, M. L., 3F12
Hogg, C., 4J157
Hogg, D. C., 9H6
Hoglund, M. D., 10C2
Hohaus, E., 7C27, 10C24
Hohn, H., 11D22
Hohnadel, D. C., 2D153
Hojyo, T., 12B126
Hokse, H., 3D259
Holak, T. A., 12C42
Holak, W., 4E62
Holakova-Kocova, M., 7G6
Holan, G., 12E14
Holboke, L. E., 5C70
Holcomb, A. E., 11H70
Holcombe, J. A., 4J111, 7J84, 9J90
Holden, J. M., 4F47
Holder, C. L., 9G12, 10D105
Holdiness, M. R., 2D110, 5D107, 5D167, 6D317
Holding, S. T., 10C57
Holdren, M. W., 9H29
Holechek, J. L., 3G10
Holets, H., 7C8
Holgate, S. T., 9D41
Holgye, Z., 1B61
Holikova, F., 5B239
Holl, M., 9D4
Holland, D. M., 7H12
Holland, F., 7J75
Holland, J. F., 3J93, 7J70
Holland, J. M., 4D298
Holland, L., 2B42
Holland, M. L., 11D8
Holland, P. T., 2F33
Holland, W. J., 1B24, 1B137, 1H27, 4B50, 4B150, 7B138
Holler, J. S., 12D137
Hollister, L. E., 12D67
Hollmann, D., 11F34
Hollweg, J., 3G20
Holm, E., 7H8
Holm, R., 12J126
Holm, S., 9D111
Holmes, D. R., 9D82
Holmes, K. D., 6J27
Holmes, R., 12B136
Holmes, R. J., 3B89
Holmstedt, B. R., 9D62, 11D96
Holopainen, M., 4J57
Holst, D. O., 12F5
Holst, O., 7C20
Holt, D. W., 4D116, 12D91
Holt, G., 7E11
Holtkamp, A., 6D83
Holtzapple, M. T., 3C63
Holynska, B., 11B36
Holzapfel, C. W., 9D6
Holzbecher, J., 2B1, 3D28
Holzbecher, J. H., 10B58
Homer, D., 7F50
Hometchko, D. J., 10F72
Hommes, O. R., 7D255
Hon, P.-K., 6B62
Honda, K., 10D216
Honda, S., 5D118, 6D151, 8D110
Honda, T., 7F54
Honeybone, A., 2C47
Hong, D., 9E29
Hong, F., 3J4
Hong, G., 9B71
Hong, M., 9E6
Hong, N., 5D159, 5D160
Hong, S. W., 8E41
Hongu, A., 10D216
Honigberg, I. L., 1E10, 2D99, 6J42
Honjo, T., 12B16
Honma, H., 7D12, 12C4
Honour, J. W., 3D1
Hood, L. E., 11D182
Hoogenboom, J. J. L., 3D85
Hoogewijs, G., 6E4, 7A11, 7C84, 8E1, 8E2
Hoogvliet, J. C., 4J38, 5J34
Hook, M. B., 3H4
Hooke, K. F., 11D163
Hooker, T. M., jun., 8J105
Hoover, M. D., 1J123, 1J15
Hoover, T. B., 10H57
Hooymans, P. M., 6D52, 11D65
Hopfinger, J. A., 9G13
Hopkala, H., 8E30
Hopkinson, D. A., 1D200
Hoppel, C. L., 11D174
Hoppen, H.-O., 5D146
Hoppes, D. D., 5J151
Hoppner, K., 5D230
Hopwood, J. J., 11D257
Horacek, I., 1D223
Horak, J., 1B136
Horakova, H., 3C19
Horbowicz, M., 2F37
Hordijk, K. A., 9H72
Horejsi, V., 11D118
Horev, B., 6F1
Hori, H., 11D81, 12D82
Hori, M., 10H24
Hori, T., 4D324, 6B112, 12J7
Hori, Y., 4F29, 11F17
Horiba, M., 11G37
Horibe, K., 1F12
Horie, M., 12D157
Horigome, T., 9D198
Horiguchi, D., 1B120
Horike, M., 11G42
Horikawa, R., 8D168
Horio, T., 6D294
Horiuchi, K., 5G15
Horiyama, S., 3D127
Horkay, K., 5B288
Horlock, P. L., 3B8
Horn, D., 8J134
Horn, M., 8C13
Horna, A., 8C19, 12C71
Hornack, F. M., 5A20
Horner, S. B., 1B24
Horner, W., 4D12
Hornig, C. R., 6D256
Horning, E. C., 3C1
Hornova, L., 8C19
Hornspenger, J.-M., 11D158
Hornstein, J. V., 9A29
Hornyak, I., 1B80
Horroba, E., 3E29
Horrocks, L. A., 3D115, 5D137
Horscroft, G., 4D306
Horsten, B. P. M., 6D204
Hortling, L., 12D237
Hortobagyi, G. N., 8D85
Horvai, G., 5A41
Horvath, C., 3D234, 4J82B
Horvath, G., 10E42
Horvath, J., 10J32
Horvath, W., 10E4
Hosaka, K., 7D124
Hoshida, H., 8D224, 8J36, 11D223
Hoshika, Y., 3D91, 8H29
Hoshino, H., 4B190
Hoshino, M., 1H7
Hoshita, T., 12D118
Hoskin, S., 2D50
Hosoda, H., 1D115, 8D139, 9D142, 11D153
Hosoe, M., 5B56
Hosogai, Y., 4F54
Hosoi, Y., 7F82
Hosokawa, M., 1D116, 7D147
Hosotte, B., 4E13
Hosoya, M., 2B71, 10B80
Hosoya, T., 7D227
Hoste, J., 1B130, 2J100, 5B146, 5H20, 7B123, 8B121, 8J115, 10J119, 11J118
Hostettmann, K., 9D220, 9J9, 9J10
Hostettmann, M., 9D220, 9J9, 9J10
Hostomska, Z., 3D276
Hotchkiss, J. H., 8D29
Hotz, D., 6D108
Hotz, R., 11H2
Houbau, V. J. G., 11D21
Houdayer, A. J., 9B180
Houdkova, J., 3J31
Houghton, E., 1D46, 10D77
Houghton, J. A., 6D55
Houghton, P. J., 6D55
Houin, G., 7D76
Houle, J.-M., 2D59
Hounsell, E. F., 10C16
Haupt, S. T., 8D84
House, M., 1J45
Houser, J. J., 1E19, 1J122
Houser, M. T., 2D231
Houston, J. E., 4J142
Houston, L. L., 2D203
Hoven, K., 10F31
Howald, H., 10D195
Howanitz, J. H., 10D21
Howard, B. V., 5D212
Howard, C. C., 1H23, 4H76
Howard, C. P., 12D207
Howard, P. Y., 5D177
Howarth, B., 4D200
Howe, A. M., 9H12
Howe, I., 7D88, 10D3
Howell, H. E., 12C40
Howell, J. A., 6C15
Howell, J. B., 11D157
Howell, J. O., 12J168
Howell, R. R., 9D16
Howell, T. C., 2H21
Howells, D. W., 3D236
Howells, M. R., 1J81
Howes, L. G., 11D159
Howes, R. J., 8J132
Hozumi, K., 1J52, 5C7
Hrabeczy-Pall, A., 7J8
Hrbek, C. C., 6D163
Hrivnak, J., 10D127, 10H80
Hropot, M., 6D303
Hrudey, S. E., 9H84
Hsia, J. J., 1J62
Hsiao, L. L., 5D190
Hsiao, S., 2D190
Hsieh, J. Y.-K., 8D64
Hsieh, M. C., 11D249
Hsieh, Y. F., 9B185
Hsu, A.-J., 10J16, 10J17
Hsu, C.-G., 5H50
Hsu, D.-S., 2D232
Hsu, J., 7H17
Hsu, J. P., 2C79
Hsu, L. K.-H., 1D164
Hu, J., 7B89
Hu, R., 2B38
Hu, T., 9B75
Hu, W., 2B38, 8B70
Hu, X., 6B54
Hu, Y., 11B122
Hu, Z., 5B42, 7B36, 9C5, 9J136, 10B66
Huang, B., 9J100, 12D13, 12D39
Huang, C.-H., 1J103
Huang, C.-S., 1J26, 7B131
Huang, C. Y., 11D254
Huang, D., 8B90
Huang, F., 7A17, 12B147
Huang, F. L., 8D134
Huang, H., 5B100, 7B33, 9B15
Huang, H. L., 11B167
Huang, J. Y. C., 10H76, 12H99
Huang, K., 5C20, 7D111
Huang, K.-F., 1E11
Huang, M., 9B166
Huang, M.-D. C., 12H99
Huang, M. H., 5D190
Huang, P., 9C50
Huang, Q., 4H52, 10B71
Huang, R. Y. M., 9J35
Huang, T., 6C27, 9E38
Huang, X., 12B116
Huang, Y., 8B26, 12B75
Huang, Y.-C., 1D130
Hubball, J. A., 2J49, 11J59
Hubbard, A. R., 6D98
Hubbard, C. R., 11A6B
Hubbard, J. W., 1D42
Hubbard, R. W., 4D107, 4D108
Hubbard, W. B., 6B137
Huber, A. L., 9H81, 9H82
Huber, J. F. K., 6J31
Huber, L., 5C64, 6C34
Huber, R., 7D82
Hubert, A. E., 6B114
Hubert, J., 6C24
Hubicka, H., 10B59
Hubicki, Z., 10B59
Hubl, W., 8D234
Hubmann, A., 5C72
Huc, A. Y., 10C54
Huck, H., 6F76, 8J126
Hucker, H. B., 1D57, 4D122
Huckerby, T. N., 6C55
Huddleston, J., 1J14, 2J99
Hudecek, S., 1C34
Hudgens, J. W., 8B140
Hudnik, V., 9D19, 9D20, 9H50, 10D16
Hudson, B. J. F., 11F47B
Hudson, H. A., 6B41
Hudson, T. J., 9E28
Huebner, D., 11F24
Huebner, G., 10D120
Huebner, W., 5C79
Huen, J.-M., 2D175
Huesgen, G., 4D154
Hueso Urena, F., 5B74
Huetter, R., 1H41
Huf, F. A., 2J60, 9J53
Huff, P. B., 5C29
Hughes, A., 10D203
Hughes, D., 6B32
Hughes, D. W., 10J50
Hughes, H. C., 6D48
Hughes, J. C., 6B111
Hughes, R. J., 1D204
Hughes, T. E., 8B76
Hughes, W. J., 8F63
Hugli, T. E., 3D109, 9D208
Huguet, J., 8H50
Huhn, A., 11J21
Huhtikangas, A., 7E6
Hui, J. Y., 2F6
Huijman, J. G. M., 6D146
Huizer, H., 3E2, 3E3, 4E11
Hujino, T., 9C55
Hulanicki, A., 5B285, 12J156
Hulebak, K. L., 12D107
Hulhoven, R., 4D127
Hulcius, E., 7B159
Hull, K., 6J168, 6J169
Hull, R. D., 1H11
Hull-Ryde, E. A., 2D217
Hulmston, P., 7B54, 10J98
Hulshoff, A., 3E22, 4D81, 4J43, 11D59
Hult, O., 4C82
Hultman, E., 7D5
Human, H. G. C., 8J99
Humbert, G., 6G20
Hummel, D. O., 9C79
Hummel, S., 9J51
Hummer, L., 11D152

- Hummerich, W., 5D187
 Humphrey, A. E., 3C63
 Humphreys, I. J., 6E10
 Humphreys, R. C., 9F51
 Humppi, T., 11C17
 Hundeshagen, H., 5E5
 Huncault, H., 9H66
 Hung, C. F., 11B167
 Hung, M. A., 4D278
 Hung, S. H., 5D190
 Hung, Y.-L., 9D168
 Hung, S. S. O., 6D216
 Hung Viet Pham, 12J154
 Hunkapiller, M. W., 11D182
 Hunneman, D. H., 7D159
 Hunnicutt, M. L., 4H43
 Hunsaker, D. B., jun., 3C3
 Hunt, G. E., 10D163
 Hunt, W. A., 8D147
 Hunter, J., 6D295
 Hunter, J. V., 4D139
 Hunter, K., 5D113, 5D114
 Hunter, R. L., 6A19
 Huntington, J. L., 8J122
 Huntzicker, J. J., 11H14
 Hupe, K.-P., 10J45
 Huppler, D. A., 3A17
 Hurd, J. K., jun., 4D260
 Hurek, J., 3B86
 Hurlbut, C. R., 9J63
 Hurley, M. C., 2D230
 Hurly, M. P., 7D37
 Hurrell, R. A., 7H3
 Hurrell, A. E., 8J9
 Hurrell, J. G. R., 1D171, 6D59
 Hurrell, R. A., 6J104
 Hurst, G. B., 2C50
 Hurst, H. E., 7D68
 Hurst, P. L., 12D241
 Hurst, W. J., 2F7, 7F32, 7F58, 11F22
 Hurt, V., 2C67
 Hurtubise, R. J., 2C29, 3C40, 9C7, 12C26
 Husain, S., 10C48
 Husch, M., 9J139
 Huse, G. R., 10J95
 Husek, P., 9D174, 12D182, 12D183
 Huskisson, N. S., 11J6
 Husmann, H., 6J67, 6J68, 8C1
 Hussain, Q. Z., 9D106
 Hussein, M. M., 7F22
 Hussein, W., 7E24, 7E31, 8E11, 8E60, 10E24, 12E13, 12E45
 Hussey, D. H., 8J1
 Hussey, R., 5J149
 Hussey, R. L., 3E16
 Huston, G. C., 8B131
 Hutchings, A. D., 3D128, 6D119
 Hutchings, M. J., 6D105
 Hutchins, J. E., 7G2
 Hutchinson, B., 1D123
 Hutchinson, D. J., 5B223
 Hutchinson, I. G., 2J99
 Hutchinson, J. M. R., 6B57
 Hutchison, A. S., 4D44
 Hutchison, J. S., 8D72
 Huth, G. C., 6J169, 6J172
 Hutin, M., 3E5
 Hutt, J. E., 1D57, 4D122
 Hutta, M., 10G20
 Hutton, L., 1D207
 Hutton, P. S., 9D10
 Hutton, R. C., 5J102
 Huurrekorpil, L., 6J22
 Huynh, C. K., 11H27
 Huzino, T., 4B60
 Hwang, C. Y., 5H12
 Hwang, D.-G., 3C72
 Hwang, D. H., 7D125
 Hwang, J. J., 8D134
 Hwang, J.-M., 4B25
 Hwang, P. T. R., 3D70, 11D52
 Hwang, W.-R., 6B24, 8H97
 Hyde, R. A., 8H75
 Hyde, W., 1G8
 Hydo, S. J., 4J10
 Hyland, K., 8D230
 Hyman, D. B., 4D161
 Hymer, W. C., 9D207
 Hyosy, T., 6D165
 Hyslop, W., 12D11
 Hyver, K. J., 10H32
 Hyver-LoCoco, K., 1J54
 Hyvonen-Dabek, M., 12D45
 Iaccheri, E., 11D40
 Iacobello, C., 9D214
 Iacopini, E., 1J1
 Iandolo, J. J., 4D244
 Iannello, M., 2D152
 Iasiello, I., 8D156
 Iauk, L., 12E19
 Ibn Oaf, H., 3C11
 Ibragimov, Ch., 5B85
 Ibrahim, E. A., 3E25
 Ibrahim, G. F., 1D223
 Ibrahim, J. M., 5D37
 Ibrahim, M., 9C54
 Ibrahim, S. K., 6H65, 8E58
 Ibsen, K. H., 8D239
 Ichiba, H., 9E63
 Ichihashi, M., 12D32
 Ichikawa, K., 8J44
 Ichikawa, Y., 6D165
 Ichinoki, S., 6B27, 7H32
 Ichinose, N., 1B71, 7H44, 8H65
 Ichioka, Y., 8D194, 8D196
 Ida, I., 5B142, 12B83
 Ida, S., 9D170
 Ide, K., 7H48
 Idei, M., 12J45
 Idoyaga-Vargas, V., 2D128
 Idris, A. B., 7B126
 Idstein, H., 6F56
 Idvall, J., 7D73
 Ievleva, N. R., 2D143
 Igaki, K., 11B148
 Igarashi, R., 6B27
 Igarashi, S., 6B46
 Igawa, M., 1J38
 Iglesias, I., 7F77
 Igloi, G. L., 5D219
 Ignaczak, M., 2C8
 Ignat'ev, Yu. S., 5C109
 Ignatiadis, I., 4C51, 9C41
 Igoshina, E. V., 7B157
 Iguchi, H., 8D43
 Iguchi, T., 2H14
 Ihn, G. S., 5J176
 Ihrig, M., 12F29
 Iida, A., 4A24, 11A27
 Iida, C., 1J64
 Iida, H., 4H25
 Iida, T., 5J143, 6D195
 Iida, Y., 2A17, 8G11, 8H33, 9C52
 Iino, N., 2H58
 Iinuma, E., 10D234
 Iisalo, E. I., 2D82
 Iizuka, H., 9E63
 Ikariyama, Y., 5D202, 8D200
 Ikebe, K., 7F4, 7F6, 11F1
 Ikebe, Y., 5J143
 Ikeda, H., 3D175
 Ikeda, M., 1B88, 4H40, 6D220, 8D174, 9D118, 10D126, 11F1, 12B122, 12D85, 12D174
 Ikeda, S., 2B56, 2B72, 2D202, 4B168, 12B121, 12J115
 Ikeda, T., 2D201, 4D311
 Ikeda, Y., 8B103
 Ikegawa, S., 4D184
 Ikekita, M., 9D263
 Ikenaka, T., 5D253, 11D248
 Ikenoya, S., 8J36
 Ikushige, T., 12B24
 Ikuta, N., 4B17
 Ila, P., 5B96
 Il'chenko, N. A., 9H9
 Ilcheva, L., 4G15
 Ilic, M. Z., 12F16
 Il'ikova, S. B., 11B117
 Il'ina, L. A., 4H46
 Ilinov, P., 7J52
 Illig, R., 3D198
 Illy, H., 9B13
 Ilmstaedter, V., 9B86
 Ilsbroux, J., 10H93
 Il'yakova, N. V., 9B69
 Ilyas, S. Q. R., 5B220
 Imaeda, K., 4C56
 Imagawa, M., 7D4, 8D194, 8D196, 11D208
 Imahori, K., 9D171
 Imai, H., 3D185, 5D42, 9C40
 Imai, K., 4D169, 4D209, 7D176, 10D15
 Imai, M., 2D207
 Imai, N., 10D260
 Imai, S., 2B34, 3H31
 Imai, W., 4D214
 Imai, Y., 9D88
 Imamov, A. Kh., 8G13
 Imamura, T., 1B120, 8D20, 10J54
 Imanari, T., 1D19
 Imaoka, K., 2B72
 Imaoka, S., 2D234
 Imasaka, T., 1B86, 4J131, 5H21, 5J80, 8J97, 10J78, 11J98, 12J34
 Imaseki, H., 11D13
 Imato, T., 6J178, 12J41
 Imbenotte, M., 8D61
 Imbert, A. M., 1D67
 Imbert, J. L., 11B93
 Improta, C., 10H77, 10J60
 Imura, H., 10D46, 11B123
 Inaba, T., 9D271, 12B109
 Inagake, T., 2B33
 Inagaki, F., 7J90
 Inai, S., 4D311
 Inayama, S., 11D81, 12D82
 Inbar, D., 8D202
 Inculet, I. I., 6J191
 Inczed, J., 2J31
 Inda, Y., 3J18
 Indeikin, E. A., 12C77
 Indic, D., 5G37
 Indrasenan, P., 9A17
 Ingalls, S. T., 11D174
 Ingersoll, J. G., 10H15
 Inglett, G., 11F43B, 11F44B
 Ingram, T., 4D255
 Ingrey, S. I. J., 3J86
 Ingwersen, S. H., 8D233
 Inman, E. L., jun., 10J101
 Inman, G. W., 6J27
 Inman, R. D., 1G19, 1G20
 Innanen, V. T., 2D31
 Inoko, M., 7H61
 Inoue, F., 6D159
 Inoue, H., 2H12, 6J49
 Inoue, M., 2C16
 Inoue, S., 4D224, 8D194
 Inoue, T., 3D62, 3D63, 5D206, 8D70, 10D96, 10E28, 11D81, 12D82
 Inskip, C. D., 6J1
 Institute of Petroleum, 1C20
 Interesse, F. S., 10F65
 International Dairy Federation, 5F29
 International Federation of Clinical Chemistry, 1D9
 International Union of Pure and Applied Chemistry, 11D30
 International Union of Pure and Applied Chemistry, Analytical Chemistry Division, 7A1, 7F37, 7J119, 10A5, 10J121
 International Union of Pure and Applied Chemistry, Clinical Chemistry Division, Commission on Toxicology, 10D5
 International Union of Pure and Applied Chemistry, Commission on Electroanalytical Chemistry, 1A3
 International Union of Pure and Applied Chemistry, Physical Chemistry Division, 10C4, 10J128
 Inturrisi, C. E., 6D76
 Inui, T., 1B71, 7H44, 8H65
 Inzelt, G., 10J130
 Ioannou, P. C., 11B41
 Iodova, E. S., 9B9
 Ioffe, B. V., 3C2, 7C31
 Ionescu, M., 12C52
 Ionescu, M. S., 2J115
 Ionin, V. A., 10H43
 Ionov, V. P., 9B23
 Ionova, N. D., 2E16
 Iordachel, M. C., 12D244
 Iordanov, I., 9J73
 Iordanov, N., 9J73
 Iori, R., 5G8
 Iosifova, E. V., 9B3
 Ioup, G. E., 6J158
 Ioup, J. W., 6J158
 Iozia, D. L., 10H7
 Ippolito, E. G., 5B52
 Iqbal, M., 6C19
 Irgolic, K. J., 12H65
 Irle, M., 2D195
 Irie, S., 6D248
 Irikura, T., 8D55
 Irimajiri, S., 9D54
 Irling, R., 6C54
 Iritani, N., 8B98
 Iriyama, K., 5D227, 6D200, 6D284, 6J181, 7D227, 12D64, 12D153, 12D215
 Irlweck, K., 10H29
 Irmer, K., 2B43
 Iroshnikova, N. A., 4B140
 Irwin, M. M., jun., 5C117
 Irwin, W. J., 9J20, 11E14
 Isabelle, L. M., 1J47
 Isackson, P. J., 4D244
 Isaev, V. S., 9J74
 Isaeva, B. I., 8E22
 Isaeva, I. V., 2E16
 Isaeva, K. G., 3B63
 Isakova, L. A., 9C21
 Isenhour, T. L., 7J88
 Isensee, R. K., 11D102
 Ishbaev, A. I., 6E14
 Ishchenko, V. B., 3B35, 4B48
 Ishibashi, K., 4J131
 Ishibashi, M., 12D124
 Ishibashi, N., 1B86, 4J131, 5H21, 5J80, 6J178, 8J37, 8J97, 10J78, 11J98, 12J41
 Ishibashi, Y., 2B72
 Ishida, H., 5B47, 8B137
 Ishida, J., 6D316, 9D95
 Ishida, K., 5B254
 Ishida, R., 8D55, 12J92
 Ishida, S., 4H75
 Ishida, Y., 1C7
 Ishiguro, E., 7F93, 7G8, 7G23
 Ishiguro, T., 12H31
 Ishiguro, Y., 8D224, 11D223
 Ishihara, F., 8D229
 Ishihara, T., 7F20
 Ishihara, Y., 6B37, 8H72
 Ishii, D., 2D163, 2J8, 2J16, 3D122, 4J16, 4J34, 4J39, 6D198, 6J30, 6J32, 7D151, 7J17, 7J24, 8J20, 9D182, 10J18, 11J26, 12J20, 12J33, 12J55
 Ishii, H., 2B70, 4B176, 7B130
 Ishii, J., 9D129
 Ishii, K., 9D142
 Ishii, N., 4D194
 Ishii, R., 4F6
 Ishii, S., 5D248
 Ishii, T., 7D12, 11D13
 Ishikawa, A., 2J110
 Ishikawa, E., 7D4, 8D194, 8D196, 11D208
 Ishikawa, I., 5J150
 Ishikawa, K., 6J64, 8B109, 11D80
 Ishikawa, M., 11D13, 11E54
 Ishikawa, N., 4B29
 Ishikawa, S., 8D224, 8J36, 11D223

- Ishikawa, Y., 11C30
 Ishikura, S., 2H58, 11C10, 12C28
 Ishikura, T., 8D43
 Ishikuro, E., 6G24
 Ishimaru, A., 4H83
 Ishitani, A., 5B47, 8J101, 8J104, 10J105
 Ishiwada, H., 6J49
 Ishiwata, H., 7F14, 8F7
 Ishizaka, M., 5D83
 Ishizaki, T., 4D93, 12D86
 Ishizu, H., 4D274, 6D186
 Ishizuka, I., 6D175
 Ishizuki, T., 1B129, 2B79, 5B35
 Isidorov, V. A., 7C31
 Iskandarani, Z., 8D163
 Iskander, G. M., 3C11
 Iskra, M., 8F36
 Ismael, S. A., 3E43
 Ismail, I. A., 1B93, 8B82
 Ismailova, M. M., 8J14
 Isobe, K., 2H12
 Isobe, M., 5D100
 Isono, H., 1D72
 Isozaki, A., 5B196
 Israelian, C., 6F67
 Israilov, M. A., 11H52
 Issa, A. S., 3E25, 11E26
 Issa, Y. M., 8B87
 Issaq, H. J., 3J17, 5G24, 10E22, 10J31, 11J13
 Isshiki, K., 2I84
 Isshiki, M., 11B148
 Issu, J. L., jun., 9D158
 Isuf, A., 1B31
 Itabe, T., 10H21
 Itagaki, H., 1J109
 Itakura, K., 11D211
 Itaba, K., 4D288
 Ito, A., 7C88
 Ito, H., 4F18, 4F67, 5D248, 6F23, 8A22
 Ito, K., 4C74, 9D87
 Ito, M., 1D163, 7D30
 Ito, R., 10D2
 Ito, S., 11B97
 Ito, T., 5D62, 5D83
 Ito, Y., 5D251, 7F27, 8D41, 8F3, 9D142, 9D180, 9G15, 9J11, 9J12, 9J13, 10D98, 10F35, 12D102, 12J17
 Itoh, H., 6E27
 Itoh, K., 4J110, 11B106, 11D210
 Itoh, M., 3F3
 Itoh, S., 7B93, 12D102
 Itoh, T., 9D129
 Itokawa, Y., 3D240, 7D229, 12D230
 Ius, A., 5D154
 Ivanchev, S. S., 5C110
 Ivanenko, V. V., 3H41, 5B52
 Ivanetich, K. M., 10D221
 Ivanov, A. A., 6F65
 Ivanov, I. N., 5B52
 Ivanov, S., 10J74
 Ivanov, V. I., 11B66
 Ivanov, V. K., 8B32, 11J85
 Ivanov, V. M., 6B20, 9B170
 Ivanov, V. N., 1C42, 5C15, 5C81, 7C78
 Ivanov, Yu. A., 1J116, 3J114, 3J118
 Ivanov, Yu. V., 10H2
 Ivanova, E. V., 9J83
 Ivanova, K. P., 12H16
 Ivanova, L. F., 11C76
 Ivanova, N. K., 4B158
 Ivanova, N. V., 11C34
 Ivanova, S., 7F38
 Ivanova, T. G., 6E13
 Ivashin, A. G., 4J100
 Iversen, H. L., 7D117
 Ives, D. H., 9D266
 Ives, N. A., 2B55
 Ivey, J. P., 3B3, 8J40, 11B12
 Iwabuchi, N., 8B81
 Iwai, H., 8D229
 Iwai, K., 3D244
 Iwai, M., 6C7
 Iwaida, M., 7F27, 7F54, 8F3, 9F18
 Iwakawa, M., 5D161
 Iwamori, M., 3D212, 7D132
 Iwamoto, E., 3B15, 3B69, 9B106, 12B122
 Iwamoto, I., 10H25
 Iwamoto, M., 6D281
 Iwamoto, T., 5D227, 6D200, 6D284, 7D227, 12D64, 12D153, 12D215
 Iwamura, H., 7J91
 Iwamura, J., 3D104
 Iwanami, S., 7D25
 Iwanczyk, J. S., 6J114, 6J169, 6J172
 Iwanski, L., 3C7
 Iwao, S., 12D35
 Iwaoka, W. T., 3F16
 Iwasa, S., 9E63, 11D208
 Iwasaki, H., 11D25
 Iwasaki, T., 6D200
 Iwase, C., 6D220
 Iwase, H., 3D211
 Iwashima, K., 4D39, 5F16
 Iwata, R., 8F7
 Iwata, Y., 4F49, 6G27
 Iwatsuki, M., 5H10, 12B139
 Iwayama, S., 6D72
 Iyengar, J. R., 5F50, 9F39
 Iza, N., 6D282
 Izawa, G., 11J30
 Izawa, K., 9B101
 Izhevskii, V. S., 7B29
 Izquierdo, A., 12B151
 Izumi, K., 7F93, 7G23
 Izumi, S., 4B88
 Izumi, T., 7H9
 Izumo, Y., 2D64, 6D80
 Izutsu, K., 3H42
 Jaaskelainen, R., 12C30
 Jabbour, J. T., 1D51
 Jablonowska, C., 4D234
 Jabs, H.-U., 1D181
 Jach, T., 8H10
 Jacintho, A. O., 2H45, 7G1
 Jack, D. B., 8D66, 12D90
 Jackman, T. E., 12J134
 Jackson, A. R. W., 8C47
 Jackson, C. J., 9H12
 Jackson, C. M., 3A2
 Jackson, D. L., 3G14
 Jackson, J. A., 7D100
 Jackson, J. H., jun., 11D186
 Jackson, P., 10D188, 10H65
 Jackson, R. W., 3D218
 Jackson, T., 10D172, 11D2
 Jackson, W. P., 6J40, 12J62
 Jackson, W. R., 1C27
 Jackwerth, E., 4H53, 7B44
 Jacob, J., 5A19, 11A12, 11C36
 Jacob, K., 10D154
 Jacob, P., III, 11D44
 Jacobs, A. A. C., 7D255
 Jacobs, F. S., 7C54
 Jacobs, I., 7D123
 Jacobs, J. J., 5J72, 6B99, 7B35
 Jacobs, S. A., 9J106
 Jacobsen, N. W., 11D90
 Jacobson, B. E., 6D60
 Jacobson, M., 10D151
 Jacobsson, I., 10D253
 Jadhav, A. V., 11B52
 Jaederholm-Ek, I., 11D96
 Jaeger, G., 2C49
 Jaeger, H., 5D88, 7D64, 9D85, 10D99, 11J57
 Jaehnen, E., 11D63
 Jaehnen, M., 9D240
 Jaeschke, W., 12H24
 Jaeschke-Boyer, H., 7D14
 Jaffery, N. F., 4D92
 Jagam, P., 5B96
 Jagarinec, N., 6D192
 Jagdamba, J., 10B87
 Jagenburg, R., 11D178
 Jager, H., 8F40
 Jagersma, T., 2E35
 Jagielski, J., 5G16
 Jahnova, V., 6J12
 Jaikhan, B. L., 4D92
 Jain, A., 12E34
 Jain, A. K., 1B75, 2B77
 Jain, C. K., 8B25, 12J155
 Jain, J. C., 11D243
 Jain, M. C., 4C59
 Jain, N., 9D72
 Jain, P., 10B164
 Jain, R., 7E40, 10A22
 Jain, R. K., 2B4, 10B168
 Jaiswal, S., 11B54
 Jaklevic, J. M., 8J2
 Jakob, P., 6D276
 Jakobi, G., 12H25
 Jakobs, U., 6D126
 Jakobsen, M., 4F3
 Jakobsen, R. J., 10H91
 Jakic, M., 7B144, 11B44
 Jakubickova, V., 5G30
 Jakubowski, T., 6D333
 Jalal, I., 11E24
 Jalkanen, M., 3D186
 Jalsovsky, G., 5A36
 Jamali, F., 6D84
 Jambor, J., 3B25
 James, H. C., 1D43
 James, K., 6F25
 James, L. B., 8D164
 James, M. W. D., 12B33
 James, R., 5D233
 James, T., 8F33
 James, W. D., 5B277, 8B91, 11B158
 Jan, J., 7F16
 Jan, M. R., 2H1
 Janacek, J., 11B111
 Janak, J., 3H37, 3J38, 7J54, 12C8
 Janak, K., 3J38
 Janata, J., 5J12, 7J131
 Janca, J., 6J12, 6J14
 Janczyn, J., 5A22
 Janda, V., 9H73
 Jandel, A.-S., 3D148
 Jandris, L. J., 2H27
 Jane, I., 2E9, 3J28
 Janer del Valle, C., 5F58
 Janicki, T., 4D27
 Janicki, W., 7C41
 Janik, B., 7D241
 Janjic, T. J., 3A4
 Jankauskas, V., 4J165
 Janke, D., 4B162
 Janknegt, R., 6D52
 Jankovic, J., 2H6
 Jankowska, J., 2F21
 Jankowska, M., 11B161
 Jankowski, B., 8H7
 Jankowski, R. A., 2H5
 Janocko, P. B., 11H1
 Janos, E., 10C25
 Janosi, A., 10C44
 Janousek, I., 1B123, 8J87, 11B137
 Janout, Z., 12B156
 Janovsky, I., 1C17
 Janowicz, K., 5B65
 Janowska, M., 9C27
 Janse, T. A. H. M., 7J9
 Jansen, A. P., 6D182
 Jansen, G., 1D110
 Jansen, G. W., 2J60
 Jansen, J. B. M. J., 1D148, 3D170
 Jansen, R. T. P., 2A11, 2A12
 Jansons, E., 5D217, 5D223, 9J129
 Janssen, E., 9F27
 Janssen, F., 4C46, 4C47, 12B177
 Janssen, P. S. L., 11D180
 Janssens, E., 11J93
 Janssens, J., 11H20
 Jansson, B., 11H69, 12D109
 Jansta, V., 5B210
 Januseviciute, R., 2D177
 Japar, S. M., 11H14
 Japp, M., 6E10
 Jarasch, E. D., 6D291
 Jardim, G. S., 4B37, 4G11
 Jardine, I., 9D11
 Jarman, M., 7D88
 Jarman, W. M., 4D142
 Jarostrom, S., 5D36
 Jarosz, M., 7B92
 Jaroszewicz, L., 10D123
 Jarrott, B., 8D77
 Jarvie, D. R., 10D49
 Jarvis, N. L., 3H12
 Jarzebowska, J., 2C53, 5C68
 Jasaitis, J., 3J106
 Jaselskis, B., 6B108
 Jasim, M., 2C38
 Jasinska, H., 5C112
 Jasinski, R., 2J109
 Jasinskienė, E., 4B148
 Jaspard, J. M., 4D322
 Jastorff, B., 4J68, 6J33
 Jauhainen, M., 4D264
 Jarvis, J. L., 8D148, 9D114
 Jawad, A. J., 8D129
 Jawsaid, M., 3D19
 Jaworek, D., 10D143
 Jaya, S., 2B80, 11B151, 11J138
 Jayadevan, N. C., 11B58
 Jayaram, B., 4E25
 Jaynes, P. K., 4D61
 Jean, W., 9H26, 9H27
 Jeannot, J. P., 7D76
 Jedinakova, V., 5B72, 5B98
 Jedrzejewski, W., 10B139
 Jee, M. H., 11F42
 Jee, R. D., 8E33
 Jeenah, M. S., 9D152
 Jefferies, A. C., 10J98
 Jeffery, S., 8D256
 Jefford, C. W., 9C39
 Jehl, F., 9D46
 Jelen, K., 10J125
 Jelic-Ivanovic, Z., 4D15
 Jelick, M. D., 12E26
 Jellum, E., 10B175
 Jeng, J., 12B34
 Jenik, J., 7H63
 Jenke, D. R., 1J71, 2B85, 5H71, 6A13, 7J47, 8B16, 8B17
 Jenkins, R. A., 8D112
 Jenkinson, G. W., 2J129
 Jenko, B., 5E47
 Jenks, B. G., 3D206
 Jenner, P. J., 4D126
 Jenner, W. N., 5D89
 Jennings, B. R., 2J130
 Jennings, P., 6E17
 Jennings, W. G., 3J50, 11J53, 11J61
 Jennison, T., 10D86
 Jenny, H.-B., 1D14, 2D13
 Jensen, A., 10D26
 Jensen, D. M., 10D255
 Jensen, E. C., 8E53
 Jensen, F. C., 10D72
 Jensen, H. S., 8D252
 Jensen, J. C., 6D117
 Jensen, R. G., 4D320, 12D132
 Jensen, R. K., 3C6
 Jensen, T. E., 5C71
 Jentsch, R., 10C81
 Jeong, H. J., 4D72
 Jerabek, P. A., 7J117
 Jeremiah, L. E., 6F34
 Jerome, B. A., 8H20
 Jerrestad, D., 8J117
 Jerumanis, J., 10F59
 Jervis, R. E., 3H51, 6H41, 6H43
 Jess, G., 6D133
 Jetley, U. K., 6B89, 10B70
 Jett, J. H., 12J104
 Jewett, P., 11D246
 Jeyaraj, G. L., 3A8
 Jezekova, D., 9D94
 Jha, A. R., 2B64, 12B113
 Ji, M., 12D13
 Ji, Y., 3B54
 Jia, B., 11B162

- Jia, F., 6C11
 Jiang, F., 6B82, 9B133
 Jiang, H., 12D39
 Jiang, X., 2C36, 6J183, 12C23
 Jiang, Z., 9E43
 Jilek, M., 10J144
 Jimenez, A., 11D76
 Jimenez, A. I., 1B89
 Jimenez, F., 1B89
 Jimenez Arrabal, M., 5B180, 8B108
 Jimenez de Blas, O., 3D149
 Jimenez Ruedas, M., 3B102
 Jimenez Sanchez, J. C., 1B112
 Jimenez Seco, J. L., 8B115, 12B149
 Jimerson, D. C., 3D99
 Jin, K., 1D28, 4D52
 Jin, L.-T., 5B157
 Jin, Q. Z., 6F36
 Jin, Z., 4H42
 Jing, L.-S., 1B46
 Jinno, K., 1J33, 2C73, 2J10, 2J24, 3C27, 3C37, 3J13, 8C40, 9C23, 9C35, 9J18, 10J38, 11J32, 12J39
 Jira, T., 3E6, 4C45
 Jiumi, T., 2C34
 Jizdny, J., 7G17
 Jochemsen, R., 6D103
 Jochum, P., 10J84
 Jockel, W., 6H26
 Joe, F. L., jun., 2F36, 4F41
 Joergensen, K. P., 9H87
 Joffe, S. N., 2D181
 Johannes, B., 5F18
 Johansen, N. G., 1C19
 Johansson, A., 2H41
 Johansson, G., 5B64, 6D247, 7C20, 12B18
 Johansson, G. I., 10H8
 Johansson, I. M., 2D212
 Johansson, L., 6J92, 10D262
 Johansson, M., 2D53
 Johansson, P.-A., 2E1
 Johansson, S., 2H41
 Johansson, S. A. E., 4J97
 Johansson, U. B., 3D11
 Johlman, C. L., 3J88
 John, J., 5B111, 5H53, 10A12
 John, R., 6D2
 John, W., 4H13
 John, W. G., 9D229
 John, I., 10D84
 Johns, E. A., 4D239
 Johns, R. B., 7C63, 11C19
 Johns, W. E., 5C95
 Johnson, B., 7H46
 Johnson, D. C., 4D220, 12J11
 Johnson, E., 8D127
 Johnson, E. K., 6J55
 Johnson, E. L., 8D63
 Johnson, F. J., 2G8
 Johnson, G. F. S., 10D163
 Johnson, G. V., 11G11
 Johnson, J. F., 2J28
 Johnson, K. D., 8F16
 Johnson, K. S., 6H64
 Johnson, L. F., 12J114
 Johnson, M. E., 5F31
 Johnson, R. G., 10B84, 11B74
 Johnson, R. L., jun., 3D268, 11H14
 Johnson, R. N., 1E40, 2E23
 Johnson, S. F., 4G20
 Johnson, S. L., 10D121
 Johnson, T. J., 11J99
 Johnson, T. K., 3D179
 Johnson, W. M. P., 12E14
 Johnson, W. W., 12D108
 Johnston, D. G., 9D159
 Johnston, G. D., 5D79
 Johnston, J. B., 12H81
 Johnston, J. M., 10D139
 Johnston, K. H., 9D199
 Johnston, M. V., III, 1J76, 8J82
 Johnstone, R. A. W., 5B9
 Jokela, H., 9D265
 Jolley, M. E., 10D10
 Jollow, D. J., 6D142
 Jolly, G. S., 9J98
 Joly, J.-G., 10D228
 Jonassen, N., 10H17
 Jonasson, R. G., 8B53
 Jonckheere, J. A., 5D152, 6D184
 Jones, A. B., 8D36, 10D63
 Jones, B. A., 4J73
 Jones, B. F., 6B175
 Jones, B. N., 3D143
 Jones, C. E., 3D78
 Jones, D. A., 3D250
 Jones, D. D., 6D304
 Jones, D. P., 8D100
 Jones, D. R., 7D68
 Jones, E. A., 8B23, 12B26
 Jones, G., 2D224, 12D220
 Jones, G. A., 7H35
 Jones, G. P., 6F29
 Jones, J. B., 6B104
 Jones, J. G., 7H65
 Jones, J. R., 12J70
 Jones, J. S., 5B233
 Jones, L. A., 1C1
 Jones, M. D., 1B7
 Jones, M. E., 7D250
 Jones, M. Z., 5D250
 Jones, P., 6B26, 7B21
 Jones, P. C., 5H85
 Jones, R. D., 3J29
 Jones, R. J., 1D1
 Jones, R. N., 4D12
 Jones, R. T., 11D44
 Jones, S., 5J36
 Jones, T. R. B., 4A28
 Jones, W., 2H6
 Jongejan, J. A., 3D248
 Jongen, M. J. M., 10D243
 Jonker, R. J., 10J45
 Jonkman, J. H. G., 6D83
 Jonsson, A., 6H27
 Jonsson, J., 3D36, 4D65
 Jonsson, J. A., 10H35
 Jonvel, P., 8E45
 Jordaeus, L., 3D57
 Jordan, D. C., 3D131
 Jordan, F., 11G22
 Jordan, N., 10D78
 Jordan, S., 10D124
 Jordan, S. W., 5J60
 Jordon, R. E., 8D235
 Jorgenson, J. W., 5J44, 6J84, 8J43, 11J24, 12J37, 12J43
 Josefson, C. M., 12H81
 Josefsson, B., 6H82, 7D171
 Joseph, J., 7J18
 Joseph, M. K., 6D215
 Joseph, S., 1D11
 Joseph-Nathan, P., 11D154
 Joseph, P. D., 12C29
 Joshi, A. P., 5B220
 Joshi, B. C., 4C29
 Joshi, B. D., 4B97, 5B113, 6B69, 12J96
 Joshi, G. C., 4C53
 Joshi, S. K., 8E46, 11E19, 11E37
 Joshi, S. R., 3E49
 Joshi, V. J., 2E43
 Jost, K. W., 11C43
 Jost, R., 2F9
 Jost, W., 1E7, 2J38, 7D224
 Jou, Y.-H., 7D10
 Jouanne, C., 5D10
 Jourdan, P. S., 6F55, 11F26
 Jousma, H., 8E69
 Jovanovic, D. A., 5D189
 Jovanovic, M., 12B90
 Joveva, S., 5D120
 Joyce, B., 5D143
 Joyce, J. R., 6E10, 9J80
 Jozan, M., 2E26
 Jozewicz, W., 7B97
 Juberda, D., 12A14
 Judd, H. J., 10F42
 Judd, R. C., 3D207
 Jue, D.-M., 9D210
 Juenge, E. C., 2D79
 Jueppner, H., 5D195
 Juergens, G., 4D265
 Juergens, U., 5D60
 Juge, F., 2D57
 Jugelt, P., 5J159
 Juhai, E., 12B48
 Juhasz, E., 4C85
 Jukar, S., 1E14, 11E19, 11E37
 Julian, E. A., 12E6
 Juliano, R. L., 9D268
 Julin, L., 4C73
 Julliard, F., 9F52, 10F73
 Julshamn, K., 12B108
 Jumaev, A. R., 10J66
 Jung, D., 8D37
 Jung, G., 5D138
 Jung, K., 3D246, 9D117
 Jung, K. S., 9B76
 Jung, M. J., 11D158
 Jungalwala, F. B., 6D176, 6D177, 10D133
 Junglas, H., 3J94
 Junge, W., 1D211
 Jungers, R. H., 11H28
 Jungreis, E., 3F24
 Juniper, E. F., 12E50
 Junk, G. A., 7C44, 8H20
 Junker, A., 4A12
 Jupille, T. H., 7J44
 Jurczak, J., 7C11, 7C37, 10C40
 Jurek, K., 7B159
 Jurgens, U., 2D62
 Jurlina, J. L., 4D129
 Jurowicz, G., 5J47
 Jury, D., 1D186
 Jusko, W. J., 9D57, 10D93, 11D145
 Juskowiak, B., 8B38
 Jusserand, C., 6C4
 Just, U., 11C67
 Justice, J. B., jun., 4D21
 Juutilainen, T., 6J93
 Juvancz, Z., 10D95
 Juvet, R. S., jun., 7J64
 Juznic, K., 1B53
 Jyo, A., 6J178, 8J37, 12J41
 Kabachnik, M. I., 5B127
 Kaback, M. M., 5D249
 Kabra, P. M., 8D39, 12D70
 Kacchawaha, M. S., 12E58
 Kachalkina, M. N., 11J75
 Kachikian, R., 7F22
 Kachin, S. V., 6B78
 Kachorovskaya, O. P., 9C34
 Kacprowicz, A. T., 6E47
 Kacprzak, J. L., 10F16
 Kaczvinsky, J. R., jun., 3H60
 Kadachi, A., 5J152
 Kadenatsi, I. B., 9D81
 Kado, S., 10F2
 Kadokami, Y., 11J39
 Kadowaki, H., 6D177, 10D133
 Kadowaki, K., 3B106
 Kadowaki, T., 11H9
 Kadoya, T., 7D185
 Kadrekar, S. B., 3D251
 Kaduce, T. L., 6D178
 Kadwani, R., 6H66
 Kaechele, M., 5D52, 7F69
 Kaempf, G., 12J126
 Kaetsu, I., 12D195
 Kafadar, K., 1A10, 1J62
 Kafarova, A. A., 9B57
 Kaftermann, R., 1D111
 Kagamiyama, H., 4D311
 Kagan, F. E., 11E32
 Kage, A., 1D55
 Kagedal, B., 4D226, 7D175
 Kagei, R. A., 7D148
 Kageyama, H., 5D251
 Kagi, R. I., 3C44
 Kah, A. F., 5C113
 Kahane, D., 12C76
 Kahle, V., 3D227, 5G25
 Kai, F., 5B257
 Kai, M., 1D149, 3D166, 4D213, 9D95, 9D168
 Kaimal, T. N. B., 12D128
 Kainz, G., 5E44
 Kaiser, E. A., 4D32
 Kaiser, E. M., 4J53
 Kaiser, G., 2B93, 4H2, 12B61
 Kaiser, K. L. E., 9H69
 Kaiser, M. A., 6J96
 Kaiser, P., 7D123
 Kaiser, R. E., 4J85B
 Kaistha, K. K., 3D31
 Kaiteris, P., 7H35
 Kaizuka, H., 3E9, 4E17
 Kaji, K., 12B132
 Kajiki, T., 8G11
 Kajimoto, O., 11A7
 Kajino, K., 2D14
 Kajiwara, N., 4F54
 Kajrys, G., 3H51, 6H41
 Kakac, B., 4D120
 Kakehi, K., 5D118, 6D151, 8D110
 Kaker, M. L., 7D200
 Kakhonovskii, F. N., 6D138
 Kakhana, H., 5B56, 12D32
 Kakhana, M., 8C18
 Kakimoto, H., 1D159
 Kakiuchi, Y., 8F3
 Kakiyama, H., 8H99
 Kakiyaki, T., 4B125
 Kakkar, L. R., 3B79
 Kakulu, S. E., 8C52
 Kakuta, S., 9D126
 Kalaidzhyan, V. A., 6E14
 Kalal, J., 4C35
 Kalashnikov, V. P., 11E31
 Kalavaska, D., 3J117, 7J140
 Kalavsky, S., 3J117, 7J140
 Kalbacher, H., 5D192
 Kalbitzer, S., 12B29
 Kalbron, J. J., 4D96
 Kalhan, S. C., 12D123
 Kalidas, K., 5B45
 Kalikov, V. N., 5B229
 Kaliner, M., 3D135
 Kalinichenko, I. E., 4D225, 6H53
 Kalinin, Yu. T., 5D216, 8D9
 Kalinina, L. V., 1B148
 Kalinina, N. N., 12C59
 Kalinkina, I. N., 6J151
 Kalinowski, K., 4B189, 5B261
 Kaliraj, P., 11D201
 Kalivas, J. H., 4A11
 Kalikandzhiev, T., 5H93
 Kallay, M., 7F89
 Kallberg, M., 4D226
 Kallenberger, W. E., 7C103
 Kallio, T. M., 3D230
 Kallir, A. J., 5J108
 Kallischnig, G., 12A8
 Kallstrom, A., 12A17
 Kallury, R. K. M. R., 4C78
 Kalman, D., 6H3
 Kalman, S. M., 12D62
 Kalmutchi, G., 4J66, 7H18
 Kaloev, N. L., 10B117
 Kalpakyan, A. M., 3C26
 Kaltwasser, E., 12F6
 Kalugin, A. A., 3B36, 4B178
 Kalus, J., 5B279
 Kalvoda, R., 2J116, 5H54
 Kalyanam, N., 4C91
 Kalyanaraman, R., 10B56
 Kalygin, V. V., 4B94
 Kamachi, S., 6D315
 Kamada, A., 12D102
 Kamada, Y., 7E8, 12B100, 12D161
 Kamakura, S., 11H35
 Kamal, M. M., 5C51
 Kamalapurkar, O. S., 1E31, 9E52
 Kamalov, R. M., 7B14
 Kamarinian, A. P., 4D134
 Katat, R. P., 11E27
 Kamata, E., 1D15, 4B198, 7B147
 Kamata, K., 4C74
 Kamaya, H., 8E66
 Kamaya, M., 8B96
 Kambara, H., 7J71

- Kambara, T., 2B74, 4C68, 4J168, 5B153, 5B205, 5C34, 5J182, 6B129, 6B131, 6B149, 6B164, 6C13, 9B115, 11H42
 Kambegawa, A., 4D187, 6D194
 Kameda, H., 12D189
 Kamel, M. Y., 9D166
 Kamenskaya, A. N., 12B68
 Kamensseva, O. V., 6E48
 Kamidate, T., 2D161
 Kamijo, M., 10H49, 12F10
 Kamikubo, T., 1B86, 5J80
 Kamil, F., 5B215
 Kamimura, H., 2D92
 Kamimura, K., 3F34
 Kaminek, M., 4D151
 Kamini, 5B215
 Kaminskaya, V. A., 8B79
 Kaminskii, Yu. L., 11J38
 Kamisaka, K., 6D269
 Kamiura, T., 5H28
 Kamiyama, F., 1D173, 5D161
 Kamikamide, D. K., 5B71
 Kamm, K., 5A26
 Kamm, R., 8E76
 Kammermann, B., 11D255
 Kamoda, M., 4F18, 6F23
 Kamoun, P., 6D275
 Kampstra, N., 6H29
 Kamson, O. F., 7B40
 Kamzel, T. V., 8E37
 Kan, T., 4C74
 Kanada, T., 11D211
 Kanahara, S., 8C38
 Kanai, H., 8H65
 Kanamori, M., 5J143
 Kanaoka, M., 5E20
 Kanaoka, Y., 11D247
 Kanapilly, G. M., 11J5
 Kanazawa, I., 6D280
 Kanazawa, Y., 8H68
 Kanchana, S., 8F6
 Kanda, H., 9B112
 Kanda, S., 12E63
 Kanda, Y., 11D81
 Kandrach, J., 5B37
 Kane, J. S., 9B4, 10J95
 Kane, P. F., 4G17
 Kaneda, N., 8D185
 Kaneda, T., 5B32, 12C20
 Kaneda, Y., 7F54, 9H78, 10D33
 Kaneko, H., 9D129
 Kaneko, M., 5H61, 8H15
 Kanemoto, H., 8C69
 Kanengiser, S., 6D289
 Kanetsuna, A., 12D191
 Kanfer, I., 4D115
 Kang, E. S., 1D51
 Kang, S. I., 9B14
 Kang, T., 9B166
 Kania, K., 2B13
 Kaniasky, D., 2J36, 3J41, 3J42, 10G20
 Kaniias, G. D., 11C58
 Kanij, J., 4C47, 12B177
 Kankare, J. J., 4J89
 Kanki, T., 12D215
 Kanmuri, M., 7F75
 Kannangara, T., 9G14
 Kanno, S., 9D105
 Kano, K., 2D201, 5C53, 7B117
 Kano, S., 4D169
 Kanoute, G., 8E54
 Kansanen, M., 6J22
 Kantipuly, C. J., 4B85, 5B270
 Kantolahti, E., 11C17
 Kantor, T., 6J128
 Kanwar, U., 6D213
 Kao, H., 3J100, 3J119
 Kao, J. Y., 4D298
 Kao, P. C., 8D222
 Kao, S.-S., 3J100
 Kapanadze, M. G., 4B147
 Kapetanovic, I. M., 6D120
 Kapila, S., 1J56
 Kaplan, B. Ya., 1B48, 5B213, 6B75, 11B81
 Kaplan, H., 4D248
 Kaplan, I. R., 6H101
 Kaplan, L., 12E28
 Kaplan, L. A., 2D153, 12D218
 Kaplin, A. A., 10B145
 Kaplin, V. T., 12C31, 12H87
 Kaplunova, A. M., 6B68
 Kapoor, S. M., 12E41
 Kaporova, N. V., 6B3
 Kapur, O. P., 3F7, 4E63, 5F56, 6F19, 8F46, 10F21, 10F50
 Kaputskii, F. N., 11J127
 Karabanov, N. T., 7J62, 10C3
 Karaeva, K. S., 10B117
 Karageorgis, M., 7D95
 Karalova, Z. K., 5B126
 Karamanos, R. E., 7G14
 Karamfilov, S., 2J122
 Karamyshev, N. I., 9J69
 Karandashev, V. K., 1B103, 6B182, 12B185
 Karanth, N. G. K., 7F71
 Karapetyan, Sh. A., 2J17, 2J18
 Karasawa, Y., 2B33
 Karasek, F. W., 2H28, 3H81, 5C57, 6H28, 7A20, 7B146, 10B175
 Karas-Gasperec, V., 9E56
 Karatani, H., 9D146, 10D6
 Karavan, V. S., 11J132
 Karawya, M. S., 10E9, 10E13
 Karayannis, M. I., 2D178
 Karazhanova, G. I., 8B46
 Karcher, W., 5A19, 8F15, 10C67, 11A12
 Kardailova, K. M., 11C9
 Kardel, B., 9J24
 Karduck, P., 7B55
 Karel, M., 6F1
 Karetnikova, E. A., 8B27
 Karg, V., 10H29, 11H18
 Kargaltsev, V. V., 1J23
 Karger, B. L., 4J27, 4J31, 5J60, 7D170, 8D175, 10D254
 Karibyan, E. M., 11E39
 Karigane, T., 2D129
 Kark, B., 6D110
 Karkalis, E., 11D111
 Karkas, J. D., 5D207
 Karklina, V., 5D217, 5D223
 Karkocha, I., 5F20, 8F29
 Karlberg, B., 7D123
 Karlekind, A., 11F36
 Karlijakovic, K., 7E41
 Karlmar, K.-E., 7D91
 Karlowski, K., 2F8
 Karlsen, J., 6F20
 Karlsen, R. L., 6D296
 Karlsson, J., 7D123
 Karlsson, L., 3D36, 11D48
 Karmaikar, B. B., 6E53
 Karmanov, V. I., 1B70
 Karmen, A., 11D94, 12D163, 12J68
 Karmen, C., 9D270
 Karnatz, N. N., 5E57
 Karnes, H. T., 4D66
 Karolev, A., 5A2
 Karoum, F., 6D156
 Karp, M. T., 2D139
 Karpati, Z., 11H40
 Karpenko, L. I., 11B84
 Karpenko, L. P., 9J126
 Karpetsky, T., 11D246
 Karpinsky, K., 12F21
 Karpova, L. K., 3E50
 Karpuj-Bar, L., 5C31
 Karpukova, O. M., 5B263
 Karras, J., 6D126
 Karrenbrock, F., 8H40
 Karrer, L. M., 4A28
 Karsten, C., 7F12
 Karsten, U., 6D254
 Kartnig, T., 10E15
 Karube, I., 1F13, 2D161, 2J114, 5D4, 5J181, 7J130, 8D201, 9J134
 Karube, Y., 3D257
 Karusevich, V. N., 11D26
 Karvanek, M., 6D24
 Karweik, D. H., 8J119
 Karyakin, A. V., 2J85
 Kas, J., 4F24, 5F51, 7D188, 7D235, 12D224
 Kasahara, Y., 7D253
 Kasatkin, G. N., 4B164
 Kaschani, D. T., 2C39, 6C41
 Kaseki, S., 3D213
 Kashii, H., 5B56
 Kashimoto, T., 7F6, 10J46
 Kasimova, O. G., 7H27
 Kasimovskii, A. A., 6J157
 Kaslow, H. R., 6D300
 Kasova, M., 11E42
 Kasprzak, K. S., 11B149
 Kasil, P. E., 2D124, 6D135, 7D104
 Kasuga, Y., 11D100
 Kasuya, Y., 6D96, 11D62
 Kataeva, S. E., 9B22
 Kataeva, Z. T., 5B88
 Katai, M., 3F11
 Katakuse, I., 1D149, 4D233
 Katakwar, T. K., 12E58
 Katalievskii, N. I., 9H65, 12H49
 Katami, T., 1B161, 8B113, 10C60
 Kataoka, H., 11D176
 Kataoka, I., 6F58
 Kataoka, M., 4C68, 4J168, 5B205, 6B131
 Katayama, K., 5D42
 Katayanagi, M., 9E63
 Kateman, G., 3A20, 5A23, 7J9, 8A14
 Katerberg, R., 9F56
 Katern, A., 7B74
 Katij, M., 9E4, 12E51
 Katiyar, G. S., 12B153
 Kato, H., 5E20, 6J6, 7D202
 Kato, K., 1D229, 3D108, 4B17, 7D197, 11D199
 Kato, N., 12D228
 Kato, T., 7B117, 8C23, 10B150, 11H12
 Kato, Y., 3D187, 3D222, 3J37, 4J42, 4J45, 6D272, 6D279, 12D215, 12J117, 12J118, 12J119
 Katogi, Y., 7D74
 Katoh, K., 6H75
 Katoh, M., 6B84
 Katori, M., 12D124
 Katrangi, N., 12D218
 Katskov, D. A., 4J106, 5B20
 Katsu, T., 8J124
 Katsumata, Y., 2D215
 Katsumura, H., 5D62
 Katterman, R., 10D143
 Katunuma, N., 5D254, 8D243
 Katyal, M., 10B164, 11B126
 Katyukhin, V. E., 7C29
 Katz, E. D., 4J17, 5J31, 12J21
 Katz, E. Z., 9D61
 Katz, S., 4D288, 11C66
 Katz, W., 9B90
 Kauert, G., 12D29
 Kauffman, G. L., 5D173
 Kauffmann, J.-M., 4E42, 8E50, 9D28, 10J145
 Kaufman, L., 5A30, 7A26B
 Kaufmann, R., 5J135
 Kauhova, L. V., 6B55
 Kaul, B., 2D211
 Kaur, P., 6D213
 Kauranen, P., 9D123
 Kavanagh, P. E., 11H68
 Kavarinos, G. J., 4D167
 Kavel, H., 5B193
 Kaviladze, M. Sh., 8J112, 9J110
 Kavoliunene, I., 4B148
 Kawabata, N., 5D97
 Kawabata, Y., 1B86, 5J80
 Kawabe, K., 8J36
 Kawaguchi, A., 7D124
 Kawaguchi, H., 3B51, 4J125, 12J101
 Kawaguchi, T., 12J8
 Kawaguchi, Y., 3C30, 5C3
 Kawahara, A., 1B98, 6H67, 8B80
 Kawahara, F. K., 2H57
 Kawai, K., 8C5
 Kawai, S., 2D126, 5D122, 6D81, 9C12, 9J55, 10B23
 Kawakami, M., 2D16
 Kawakubo, S., 1B39, 7B111
 Kawalec, B., 1J122
 Kawamoto, H., 2J3, 8D139
 Kawamoto, T., 3C9, 3E19, 8E20, 9D51
 Kawamura, F., 9B148
 Kawamura, J., 8D179, 9E7, 9E8
 Kawamura, K., 1D173
 Kawamura, N., 5F27, 7D30, 7F5, 7G35
 Kawamura, S., 2D92, 3D108
 Kawamura, T., 6J181, 8F3, 12F10
 Kawamura, Y., 6B149
 Kawano, K., 1D167
 Kawano, S., 5J59
 Kawasaki, K., 3C27, 3C37, 8C40, 9C23, 9C35, 11J32
 Kawasaki, T., 5E29, 6D29
 Kawasaki, Y., 7F14
 Kawase, A., 9B39
 Kawase, J., 3C57, 3C58, 4C71, 9D121
 Kawase, M., 6D128
 Kawase, S., 9D105
 Kawase, T., 5D132
 Kawata, K., 5D145
 Kawata, S., 8A17
 Kawazoe, S., 10D237
 Kay, J. D. S., 2D125
 Kayden, H. J., 3D238
 Kaye, W., 6J120, 6J121
 Kayser, E. G., 4C100
 Kayumov, V. G., 2B52
 Kazakevich, Yu. E., 11B144
 Kazakov, V. K., 7B75
 Kazakova, L. A., 6E46
 Kazama, M., 12H96
 Kazandzhieva, P., 11E8
 Kazimierz, S., 8A20
 Kazlauskas, D., 2D177
 Kazlauskas, R., 4J165
 Kaz'min, P. G., 6B136
 Kazuro, T., 4C71
 Ke, F. C., 8D134
 Keagy, P. L., 9C71
 Kealey, D., 5A44B
 Kearney, J. T., 9D232
 Keating, M. Y., 12D10
 Keay, G., 9D212
 Kebabian, J. W., 2J12
 Keddington, J., 4D227
 Kedik, L. M., 12H19
 Kedrowski, R. A., 4D48
 Kedzierski, B., 8F58
 Keeley, D. F., 3H52, 9J125, 12B102
 Keeley, F. J., 7D81, 8D63
 Keelus, L. S., 4C96
 Keenan, J. R., 3D58
 Keeney, P. G., 1G4
 Keenlyside, M., 2J89
 Kees, F., 9D48
 Keiller, D. R., 6D40
 Keirns, J. J., 10D108
 Keirse, M. J. N. C., 8D122
 Keiser, H. R., 12D154
 Keith, D. A., 4D87
 Keith, D. J., 10J117
 Kelbakian, N. V., 4B147
 Kelder, B., 4D262
 Kelemen, J., 5C55, 10C46
 Kelen, T., 6C54
 Kelholt-Dijkman, H. H., 6D146
 Keliher, P. N., 3C32, 11C23
 Kelker, H., 7A3
 Kelle, H., 11B166
 Kelleher, F. M., 7D187
 Kelleher, P. J., 9D268
 Keller, A., 6D99, 6D110
 Keller, C., 10B9
 Keller, R. A., 12J104

- Keller, S., 9D175
 Kellerman, S. P., 12B176
 Kelley, E. A., 6D12
 Kelley, P. E., 2J61
 Kellner, J., 1C10
 Kellogg, T. F., 5J156
 Kelly, A. M., 2D236
 Kelly, J. F., 11H1, 11H7
 Kelly, K. E., 5F38
 Kelly, N. A., 4H7
 Kelly, R. C., 11D71
 Kelly, T. A., 10D136
 Kelly, W. R., 2D28, 12B73, 12B119
 Kel'man, V. M., 9C1
 Kelner, D. N., 7D195
 Kelner, M. J., 1D47, 7D43, 10D79, 12D58
 Kelsey, C. R., 12D125
 Kelso, D. M., 10D10
 Keme, T., 7F36
 Kemp, G., 4C95
 Kemp, G. S., 1C40
 Kemp, H. A., 6D2
 Kempe, J., 2C49
 Kemper, K., 7D223, 9D237
 Kempf, T., 1H24
 Kempisty, T., 2J106, 5B192
 Kempny, J. M., 7D32
 Kemula, W., 2J26, 4C18, 4C19
 Kendall, R. J., 3D13
 Kendle, K. E., 6D206
 Kendler, K. S., 8D64
 Kendrick, K., 6B99
 Kennard, M. L., 3C45
 Kennaway, D. J., 9D165
 Kennedler, E., 2J37
 Kenne, L., 3D98
 Kennedy, C. D., 3J101
 Kennedy, E. R., 1H21
 Kennedy, J. F., 1D89, 4C13
 Kennedy, J. H., 8E39
 Kennedy, J. W., 4A18, 9A20
 Kennedy, R. I., 4D191
 Kennedy, W., 1J112
 Kennedy, W. R., 5J66
 Kennedy, W. T., 6B137
 Kennett, T. J., 5H51, 9A37
 Kenny, G. E., 5D6
 Kenny, M. A., 2D29, 6D27, 12D43
 Kensett, M. J., 3B8
 Kent, J., 10E45
 Kent, J. C., 2D183
 Kent, P. G., 7J6
 Kentamaa, H. I., 7J108
 Kenyon, C. N., 10J116
 Keough, M., 12D219
 Keppler, D. O. R., 4D284
 Kerechuk, A. S., 6B49
 Kerek, F., 8C14
 Kerekes, R. J., 10B130
 Keren, D. F., 8D182
 Kerfoot, E. J., 2H26
 Kerimov, G. N., 11B113
 Kerkhoff, M. J., 10J101
 Kerlavage, A. R., 3D188
 Kerm, K., 9B49
 Kerner, J., 6D225
 Kernevez, J. P., 3J112
 Kerns, E. H., 7H54
 Kerr, I. M., 9D234
 Kershaw, J. L., 11C49
 Kershaw, M. J., 10D182
 Kerstan, D., 7E18, 9J30, 12E1
 Kerster, H. W., 7H72
 Kerzner, B., 6D131, 6D132
 Keshavan, B., 9B174
 Kesler, D. J., 5D153
 Kessler, A., 8E49
 Kessler, H. G., 6F53
 Kesten, E. M., 7D32
 Kester, P. E., 11B86
 Ketchum, C., 4D109
 Ketelaars, H. C. J., 12D93
 Ketelsen, P., 12H15
 Ketselslegers, J. M., 12D186
 Ketrup, A., 4J26, 5J27, 8H89
 Keukens, H. J., 1D73, 6D125
 Keune, H., 5H97
 Kever, J. J., 6J45
 Keys, A. J., 3A5
 Keyzer, J. J., 2D171, 3D133, 4D35
 Khabarov, A. A., 2E24
 Khabeev, I. A., 5B263
 Khabibullaev, P. K., 3B96
 Khachatryan, V. V., 4C102
 Khachaturyan, E. G., 3B78
 Khaibabev, Kh. Kh., 6E14
 Khaldina, Yu. L., 5J7
 Khalifa, H., 1B93, 8B82, 8D19, 11B91
 Khalifa, H. H., 4F45
 Khalifa, S. M., 4B21, 10B19, 11B147
 Khalifa, T. I., 3E8, 3E13
 Khalil, M., 6D89, 7D58
 Khalil, M. A. K., 4H34
 Khalil, M. W., 6D189, 9D246
 Khalil, W., 6E29
 Khaliqzaman, M., 9J78, 11D12
 Khalonin, A. S., 1B148
 Khamidov, B. O., 5B19
 Khamrakulov, T. K., 1J9
 Khamrakulova, V. V., 4B128, 5B185
 Khan, A. H., 11D12
 Khan, A. S., 11B94
 Khan, K., 2G4, 4B173
 Khan, M. A. Q., 11G35
 Khan, M. S., 1D162
 Khan, N. U., 4D160
 Khan, T. R., 9H23
 Khanduja, K. L., 6D90
 Khandzheva, N., 8D105
 Khanna, J. M., 7D160
 Khanna, N. C., 2D188
 Khanna, P. P., 6J50
 Khanol'ar, J. E., 11E36
 Kharabadez, N. E., 11D7, 12D16
 Kharat, R. B., 7B122, 8B86, 8C33
 Kharchenko, L. A., 1B65
 Kharnikova, G. A., 5H35
 Khatamian, N., 6F35
 Khater, H., 1B93
 Khatib, S., 7J53
 Khatkar, S. P., 9B73
 Khattoon, F., 11B53
 Khatri, H., 4B136
 Khattab, F., 5B51
 Khattab, F. I., 1E30, 5E6, 5E11, 5E30
 Khattak, M. A., 4B173
 Khayyal, S. E., 8E16, 10E12
 Kheawpintong, S., 2B73, 6B165, 8B123
 Khikmatov, Kh., 3B47
 Khim-Heang, S., 7H66
 Khlynova, N. M., 2J120
 Khmara, Yu. M., 7B29
 Khmel'nikskaya, E. Yu., 10C35, 10C71
 Kho, B. T., 1E40, 2E23
 Khodkin, V. I., 1B5
 Khokhlov, A. E., 4B93
 Khokhlova, G. A., 11H29
 Khokhlova, T. D., 9D204
 Khokhol'kova, G. A., 7H21
 Kholmovoi, Yu. P., 1J102, 9J127
 Kholodov, L. E., 9D81, 9D86
 Khomyak, A. S., 2J85, 4J105
 Khopkar, P. K., 1B63, 5B128
 Khopkar, S. M., 3B44, 4B146, 5B159
 Khorami, J., 10H31
 Khots, M. S., 8C82, 8J111
 Khoury, H. N., 6B175
 Khovans'ka, N. P., 6E58, 11E33
 Khozhainov, Yu. M., 4J116
 Khrustaleva, G. N., 8C95
 Khudyakova, Kh. K., 2G14, 2G15
 Khulidze, D. E., 4B30, 11J72
 Khveshchuk, P. F., 8E89
 Khvostenko, E. K., 8C95
 Khvostova, V. P., 1B140
 Kiba, N., 6B31, 8F51
 Kibler, S., 11D144
 Kicinski, H. G., 5J27
 Kidby, D. K., 9H81, 9H82
 Kido, A., 2D215, 4D36
 Kido, R., 12D120
 Kido, T., 5D171
 Kieber, D. J., 8D113
 Kieboom, A. P. H., 5A13
 Kiefer, W., 8J106
 Kieffer, R., 6B180
 Kiekens, P., 4B70
 Kiel, J. S., 7D69
 Kiem, J., 12D25
 Kiennemann, A., 6B180
 Kientz, C. E., 7E44
 Kierzek, J., 10J124
 Kiesel, L., 12D235
 Kieselstein, M., 1D185
 Kiesel, W., 11B153
 Kiff, L. F., 4D142
 Kifwahid, B., 3G8
 Kihara, S., 9B101
 Kihira, K., 12D118
 Kigemagi, U., 1G19, 1G20
 Kikawa, Y., 12D122
 Kikindai, T., 5B259
 Kikkert, J. N., 6J116
 Kikuchi, H., 9D73
 Kikuchi, K., 12D122
 Kikuchi, R., 2B93
 Kikuchi, T., 7D124, 11F2
 Kikugawa, K., 3F1
 Kilander, A. F., 8D181
 Kilikidis, S. D., 4D134
 Killoh, D. C., 9J143
 Kilpelainen, H. O., 10D259
 Kim, A. Ch., 10B121
 Kim, C., 7D160
 Kim, H., 1G4
 Kim, J. B., 4D182, 12D193
 Kim, J. I., 10B69, 11B63
 Kim, K. C., 8J102
 Kim, K. H., 4B87
 Kim, M. S., 7J111
 Kim, S., 2D223
 Kim, T.-C., 11B152
 Kim, V. B., 3B96
 Kimble, S. N., 5D45, 11D41
 Kimes, A. S., 9D186
 Kimizuka, Y., 7E4
 Kimmerle, F. M., 10H31
 Kimoto, T., 6B63, 10H25
 Kimstach, V. A., 9B168
 Kimura, A., 8B12
 Kimura, H., 2B51, 5B40
 Kimura, K., 2J110, 6J47, 9B17, 10J136, 12D66
 Kimura, M., 3D240, 7D229
 Kimura, S., 6D22
 Kimura, T., 5B203, 5F16, 8D179, 9E7, 9E8, 10D213, 11B64
 Kimura, Y., 5H62
 Kina, K., 1B120, 5B28, 8D20, 10J54
 Kincaid, J. R., 3D214
 Kindack, D., 9E19
 Kindahl, H., 6D168
 Kindstedt, P. S., 2F29
 King, G. S., 9D169
 King, L. J., 10D64, 10D65
 King, M. V., 5H6
 King, R. R., 7F73, 9G5
 Kinghorn, A. D., 9E9
 Kingkate, A., 4F22, 7F80, 8F35
 Kingma, A. W., 12D160
 Kingston, E. E., 7J111
 Kingston, H. M., 1D33, 2H32
 Kinkel, A. W., 12D104
 Kinkeldei, J., 12J87
 Kinnaird, J. A., 11B154
 Kinney, C. D., 9D79
 Kinniburgh, D. W., 10D86
 Kinoshita, E., 5E20
 Kinoshita, F., 2D195
 Kinoshita, M., 7D202
 Kinoshita, T., 10D100, 10D234
 Kinstle, J. F., 10J130
 Kinstley, W., 5H85
 Kinugasa, A., 6D159
 Kirby, S. L., 1C1
 Kirch, P., 8J126
 Kirchner, D., 12J126
 Kirchner, H.-H., 5J6
 Kireev, V. A., 1B6
 Kirichenko, E. A., 3C24
 Kirichenko, L. O., 3E34
 Kirichenko, N. P., 9B182
 Kirichenko, V. E., 3G17
 Kirigaya, T., 12F10
 Kirilenko, E. K., 9H20
 Kirillov, A. I., 4B82, 8B55, 12B43, 12H60
 Kiriyak, L. G., 7B86
 Kirk, P. W. W., 10H90
 Kirkbright, G. F., 2J82, 5J117, 6C53, 7J118, 8C24, 9J102, 10C86, 10G27
 Kirkiacharian, S., 6D174
 Kirkland, J. J., 6J192
 Kirkpatrick, L., 4D136
 Kirkpatrick, P. B., 10J13
 Kirmse, E. M., 1B41, 10B131, 10G11
 Kirowa-Eisner, E., 6B30
 Kirschbaum, J. J., 7J18, 9E42
 Kirsch, S. I., 7J62
 Kirst, E., 9F36
 Kirsten, W. J., 8C4, 11G4
 Kirvan, K., 12D21
 Kiryu, S., 1J110
 Kirzhner, O. M., 3B94
 Kiselev, A. V., 4C35, 4C39, 4C93, 7D140, 9D204, 9J57, 11C29
 Kiselev, G. G., 1J98, 9H62
 Kiseleva, N. S., 7C78
 Kiser, E. J., 4D89
 Kish, P. P., 8B72, 9B95
 Kishi, T., 10E28, 11D81
 Kishie, T., 6D128
 Kishikawa, T., 11B19
 Kishimoto, S., 1D173
 Kishman, J., 6J147
 Kishner, H. J., 4D167, 7D23
 Kiso, Y., 5H31, 6H33, 9D73
 Kiss, E., 5C93
 Kiss, G., 4J175
 Kiss, L., 5J132
 Kiss, T. F. A., 4A10
 Kissa, E., 1C4, 3H20
 Kissinger, P. T., 1D29, 4D289, 5D65, 7D232
 Kist, A. A., 5B50, 5G1, 9B32
 Kister, J., 11C45
 Kitabatake, K., 7F85
 Kitada, C., 11D208
 Kitada, Y., 9F17, 11D24, 12H67
 Kitade, T., 1J52
 Kitaev, G. A., 9B25
 Kitaev, Yu. P., 12H74
 Kitagawa, K., 3J77
 Kitagawa, T., 5D100
 Kitahara, H., 3C8
 Kitahara, T., 1D208
 Kitakaze, T., 4D324
 Kitamori, N., 8D184
 Kitamura, H., 7J24
 Kitamura, K., 1J52, 5C7
 Kitamura, T., 3D187, 4J45
 Kitano, S., 1D128, 1E15, 1E34, 3D79, 6E51, 7E8, 8D198, 9E22, 12B100, 12D161
 Kitao, K., 11D13
 Kitaura, T., 11D57
 Kitazawa, S., 10J136
 Kitazawa, T., 10J80
 Kitazoe, Y., 6D237
 Kitazume, E., 9B89
 Kitahara, H., 10D164
 Kito, A., 4H81
 Kito, M., 5D226
 Kittler, J. M., 11D188
 Kitzman, J. V., 12D84

- Kiuchi, M., 10H24
 Kivisto, H., 6J22
 Kiyanskii, V. V., 7B26
 Kiyobe, S., 4C81
 Kiyosaki, T., 8D43
 Kizuki, K., 9D263
 Kjosen, H., 3C25
 Klabenesova, I., 8J94
 Klad, N. V., 4B163
 Klainer, S., 9H35
 Klamer, J. C., 11C65
 Klapper, D. G., 6D239
 Klaue, W., 11G33
 Klaus, E., 6D303
 Klaus, R., 9J50
 Klausner, Y., 8D202
 Klavina, Z., 2C30, 6C23
 Klee, D., 6C52
 Klee, M. S., 6J96
 Kleiman, R., 2C22, 2F44
 Klein, A. E., 5E43
 Klein, F., 10D141, 11D63
 Klein, G., 2D165
 Klein, G. W., 1H19
 Klein, J. C., 6B40, 12B182
 Klein, M., 5H17, 12J148
 Klein, P. D., 4D42
 Klein, S. W., 11D31
 Klein Elhorst, J. T., 10E20
 Kleiner, T., 5J169
 Kleinwachter, V., 5D39
 Klemens, M., 12D77
 Klemetsrud, T., 9E39
 Klomp, C., 3F2
 Klempier, N., 6H34
 Klempark, K., 6J12
 Kleshchevnikova, V. N., 6H98
 Klesper, E., 3J24, 5C107
 Kletenik, Yu. B., 5B197
 Kletsko, F. P., 12B43
 Kleykamp, H., 7B128
 Kleynd, D. H., 7F53
 Klibus, A. Kh., 9B77
 Kliger, D. S., 4J154B
 Klikova, J., 5B139
 Klima, Z., 2E6
 Klimak, Z. A., 8H26
 Kliment'eva, N. I., 5E7
 Kling, O. R., 4D186
 Kling, T. A., 5B233
 Klingenberg, A., 6F64
 Klingler, W., 4D18, 7D8, 9D137
 Klinskaya, N. S., 8C45
 Klinskii, G. D., 8C45, 8C46
 Klisenko, M. A., 7G34, 10H38, 11H29
 Klocke, U., 12H18
 Klockenkemper, R., 3J70, 4A13, 4B46
 Kloczko, I., 10F29
 Kloeppel, K. D., 2J94, 11J115
 Klok, A., 4J126
 Klok, G., 8D122
 Klomp, H., 10F41
 Kloosterman, A. D., 12D242
 Klop, W., 7F76
 Klosova, E., 5B122
 Kloster, G., 6E5
 Klostermeyer, H., 9F32
 Klotz, U., 5D91
 Kluge, W., 11B16
 Klurvingh, F., 11D95
 Klusacek, L., 5J15
 Knapp, D. R., 2A44, 6D106, 7D78
 Knapp, G., 5C9, 12H4
 Knauf, R., 12B14
 Knazko, L., 9E48
 Knebusch, M., 4F62, 9F46
 Knecht, D. A., 9D200
 Knecht, J., 5G17
 Knecht, L. A., 6J84, 12J43
 Kneifel, H., 3D148
 Knezevic, G., 10C74
 Knickelbein, M. B., 9J63
 Knight, B. I., 2E41
 Knight, C. H., 11J120, 12B70, 12B71
 Knight, J. A., 6D19
 Knight, R. K., 12D125
 Knighton, W. B., 12J73
 Kniseley, R. N., 2G2
 Knoblock, E. C., 7D23
 Knoche, H. W., 2D146
 Knockaert, I., 2E4
 Knoechel, A., 1J79, 12H15, 12J49
 Knoeppel, H., 6J83
 Knoll, R., 11C15
 Knorre, V. D., 11J29
 Knoth, J., 2J65
 Knothe, M., 12H18
 Knott, C., 10D83
 Knott, J., 12C67
 Knowles, M. E., 6F10
 Knowles, R. G., 3D252
 Knox, M. J., 2E12
 Knudson, E. J., 8F55
 Knuff, A. J., 10E20
 Knuppen, R., 5D146, 9D137
 Knuth, M. L., 10C2
 Knutson, A., 2G7
 Knuutinen, J., 11C17, 12C30
 Kny, E., 7A10, 11B90
 Knyazev, A. S., 12J51
 Knyazev, D. A., 1B16, 8C45, 8C46
 Knystautas, E. J., 12B58
 Ko, J. B., 4B46
 Kobari, T., 5D83
 Kobatake, H., 2C18, 7D110
 Kobayashi, E., 8C76, 9J42
 Kobayashi, H., 1C18, 12D81
 Kobayashi, K., 1H39, 2D126, 5D122, 8F3, 9C12, 10D186
 Kobayashi, N., 1D115, 8D139, 11D153
 Kobayashi, S., 4D311
 Kobayashi, T., 2H53, 3H67, 7B30, 11H35
 Kobayashi, Y., 2D92, 4C68, 4D199, 5D136, 10D100, 10H24, 11B64, 12D143
 Kobeleva, N. S., 5H81
 Kobes, R. D., 11D236
 Kobos, R. K., 11J01, 5E22, 8D171
 Koch, D. D., 1D12, 4D29
 Koch, J., 10F67
 Koch, K., 10D84
 Koch, K.-H., 4B160, 12J74
 Koch, P., 12B1
 Koch, R., 11H31
 Koch, T. R., 7D23
 Koch, W. F., 5B115, 5H19
 Kochan, S. J., 12F41
 Kocharyan, A. A., 11C2
 Kochen, W., 12D77
 Kochetkova, N. E., 5B127, 8B62
 Kochetkova, T. M., 8C8, 12B187
 Kochetov, V. A., 3C24
 Kochmann, G., 3D270, 3D271
 Kochmann, R., 3D270, 3D271
 Kochova, I., 6E13
 Kocna, P., 7G6
 Kocsis, E., 2J31
 Kocur, P., 7J77
 Koda, K., 11D251
 Kodama, H., 1B129, 3D163, 8D174
 Kodama, T., 6G7
 Kodama, Y., 12D35
 Koegel, F., 6F62
 Koegel, I., 9G9
 Koehler, A., 3D261
 Koehler, H., 9D209, 10D245
 Koehler, J., 7J25, 11C6, 11J15
 Koehler, P. E., 7F79
 Koehler-Schmidt, H., 4D105
 Koek, J., 2D214
 Koel, M., 3D92
 Koenig, H., 1C31, 8C74
 Koenig, J., 2C52
 Koenig, J. L., 6C44, 8B137
 Koenig, K. H., 4B5, 4B6, 5A7, 5A12, 5B1, 5B2, 6B7, 6B8, 11F34
 Koenig, W. A., 5C19, 6D212, 7E3
 Koeppen, B., 9D259
 Koerber, K., 6F75
 Koerfer, K. H., 5F18
 Koeser, H. J. K., 5C63, 10J68
 Koester, J., 5G6
 Kofanova, N. K., 12B22
 Koffigan, M., 8D209
 Kogan, A. A., 9J83
 Kogan, D. L., 8J111
 Kogan, F. M., 5H8
 Kogan, M. J., 6D92, 11D49
 Koget, T. O., 3E40, 11E32
 Kogo, H., 8D119
 Kogoh, K., 8J35
 Kogosov, E., 10D155
 Koh, D. S. P., 12C13
 Koh, L. L., 10C45
 Koh, T., 1D39, 10B116
 Koh, T.-S., 2D42, 4D4
 Kohara, N., 11C70
 Kohda, K., 3D104, 4D90
 Kohda, Y., 9D65
 Kohen, F., 7D142, 12D193
 Kohl, B., 5D58
 Kohlhof, K. J., 3D69
 Kohli, J. C., 4C49
 Kohli, K. K., 3D172
 Kohlmeier, M., 9D217
 Kohmoto, S., 9C39
 Kohnert, U., 9D218
 Kohno, H., 5D81, 6J178
 Kohno, Y., 10H75
 Kohoutek, V., 2C62
 Kohri, M., 12B146
 Koida, K., 10H75
 Koide, A., 11D123
 Koide, S. S., 6D261, 10D252
 Koire, O. E., 5B127
 Koirtiohann, S. R., 9J96
 Koivistoinen, P., 2F1, 4F5
 Koivula, T., 9D265
 Koizumi, A., 4H40
 Koizumi, H., 4C55
 Koizumi, K., 1C6, 3D127
 Koizumi, N., 8J129
 Kojima, A., 5C91
 Kojima, K., 11D237
 Kojima, M., 5D62
 Kojima, T., 3B15, 5D70
 Kojiro, D. R., 12J72
 Kojlo, A., 1B149, 1E22
 Kok, G. L., 9H28
 Kok, W. T., 7J138, 8D166
 Koka, I. P., 4E3, 6E44, 11E15
 Kokkonen, P., 7B27
 Kokovkin, V. V., 10B129
 Kokrashvili, N., 9B99
 Kokubu, N., 9B20
 Kokuseva, V. N., 4B201
 Kolarov, L. A., 8D130, 11D148
 Kolarovic, L., 6J82
 Kolb, B., 5E62, 5J49, 5J50, 6H84
 Kolb, W. A., 6B57
 Kolbe, W. F., 9H5
 Kolbyagin, N. P., 11J130
 Kolcava, D., 11B111
 Kolesnik, Yu. A., 5D121, 5D123, 6D154
 Kolesnikov, B. E., 9J74
 Kolesnikov, G. M., 8H23
 Koleva, M., 6E25
 Kollar, D., 9J120
 Koller, H., 7J26
 Koller, W. D., 8J55
 Kollotzek, D., 11J92
 Kolmakova, L. P., 2B2
 Kolmogorov, Yu. P., 11J79
 Kolodenny, R., 12C64
 Kolodko, T. M., 3B112
 Kolodny, G. M., 11D213, 12D209
 Kolomiets, L. L., 3B49
 Kolotkov, A. V., 4J88
 Kolpakov, V. A., 9B54
 Kolpakova, N. A., 6B174
 Koltay, E., 12D17
 Kolthoff, I. M., 2B9, 4A33B
 Kol'tsov, L. V., 11B5
 Koltun, P. S., 6E65
 Komarek, K., 8C19
 Komarov, A. I., 2J86
 Komarov, N. N., 6J45
 Komarova, A. A., 4B74
 Komarova, N. I., 1J23
 Komarova, Z. V., 7B139
 Komatsu, K., 4H81
 Komatsu, M., 9C60
 Komatsu, S., 4H62
 Komatsu, T., 7B129
 Komatsu, Y., 7J48
 Kommetani, J. M., 5C104
 Kominami, B., 9B39
 Kominami, E., 8D243
 Kominar, R. J., 5H3, 6H87
 Komissarova, T. E., 8B37
 Komives, T., 12D110
 Komiya, K., 6J48
 Komlenic, J. J., 12C44
 Komlenic, I. V., 2C24
 Komleva, V. I., 7B118
 Komoda, Y., 7F9
 Komori, T., 6B107
 Konate, L., 3J112
 Kondo, H., 7H24
 Kondo, K., 11D208
 Kondo, M., 12J117, 12J118, 12J119
 Kondoh, G., 1B98
 Kondratenko, L. A., 9B181
 Kondratenko, V. A., 6J157
 Kondrat'ev, N. B., 5B52
 Konecki, J., 2D172
 Kong, R. C., 2J55, 3J58, 6J43, 8J59, 11J47, 12J62
 Kong, Y., 3B109
 Konishi, E., 11D208
 Konishi, M., 6J181
 Konishi, T., 2D26, 6D151, 8D110, 11D57
 Konishi, Y., 11D196
 Kon'kova, N. F., 1B140
 Konno, H., 2B71
 Konno, M., 10D216
 Konno, Y., 5H61, 8H15
 Kono, A., 3D257
 Kono, H., 7D227
 Kono, M., 5D243, 9D54
 Kono, T., 7B116
 Kononov, V. F., 4B93
 Kononov, V. P., 2B84
 Kononykina, N. N., 8D26
 Konopka, J., 8J77
 Konrads, A., 5D187
 Kon'shina, E. A., 7B64
 Konstantinov, I. O., 3B7
 Kontaratos, J., 3H57
 Konuma, H., 1J84
 Koons, R. D., 4F32
 Koopman, B. J., 3D133
 Koopmans, R. J., 7C94
 Koops, J., 10F41, 10F45
 Koori, M., 7B93
 Kopaciewicz, W., 3D182
 Kopanica, M., 5H54, 7H63
 Kopcynski, S. L., 10H37
 Kopecka, B., 10B140
 Kopečni, M. M., 7J63
 Kopeikin, V. A., 5B20
 Kopfler, F. C., 5H73
 Kopichuk, I. I., 11E31
 Kopkov, V. K., 5B183
 Koponen, J., 12B81
 Koprdva, V., 5D18
 Kopylov, V. M., 3C24
 Kopytin, A. V., 7J129
 Kopytin, Yu. D., 10H2
 Korany, M. A., 3C59, 3E48, 10E10
 Korb, C. L., 10H21
 Korcek, S., 3C6
 Korchagova, E. Kh., 8C48
 Korda, T. M., 1B27
 Korduba, C. A., 9D60
 Koreisha, M. A., 9F50

- Korenman, I. M., 8B99
 Korenman, Ya. I., 5C50, 5H81
 Korennoi, E. P., 6B52
 Korepanov, V. E., 10J102
 Koresh, J. E., 6J4
 Korfmaier, W. A., 5C54, 8C42
 Korhonen, I. O. O., 2C27, 3C17, 4C10, 4C23, 4C24, 5C16, 5C17, 9C19, 10C12, 10C22, 12C10, 12C12, 12C19, 12C30
 Korhonen, R. T., 2D225
 Koricanac, Z., 7E42
 Koritnik, D. L., 8D211
 Korkisch, J., 4H70, 5B118
 Korn, F., 9D213
 Korn, W. R., 4D78
 Kornblum, G. R., 4J126
 Korneeva, G. P., 1C36
 Kornis, Mrs. G., 10J149
 Korobeinikova, E. G., 6B81, 9B2
 Korohoda, M. J., 5C59
 Korol, A. N., 3H58, 4J63
 Korol, L. S., 8B111
 Korolenko, P. I., 11B102
 Korolev, A. A., 4J62
 Korolev, G. K., 11H54
 Koroleva, G. N., 8B55
 Koroleva, M. V., 6E48
 Koroleva, M. Ya., 2E47
 Koroleva, V. P., 4B72
 Korol'kov, V. A., 10H2
 Korolkovas, A., 2E40, 2E42
 Koropalov, V. M., 1H18
 Korostyleva, L. D., 9B123
 Korotaeva, I. Ya., 1A5
 Korovin, Yu. I., 11J67
 Korpela, T. K., 6J38
 Korpi, E. R., 1D135, 10D161
 Korsah, J. K., 8A26
 Korsakova, N. V., 9B167, 9B172
 Korte, E. H., 4A25
 Korte, F., 5D112, 7H5
 Kortland, W., 4D235
 Koruna, I., 11D86
 Korver, M. P., 2D118, 8D93, 8D101, 8D102
 Koryta, J., 6E29, 12J150
 Koryt'ko, G. T., 2H70
 Korytnyuk, R. S., 6E63
 Kos, H.-J., 10J81, 10J82
 Kosak, A., 5E47
 Kosaki, G., 1D208
 Koscielniak, P., 5A24, 5A25
 Koscielniak, T., 7C11, 10J72
 Kosfeld, R., 7C96
 Koshcheeva, I. Ya., 7H27
 Koshida, K., 10B150
 Koshikawa, T., 3B38
 Koshima, H., 4H78
 Koshkina, T. A., 6B5
 Koshy, V. C., 7C40
 Kosik, M., 10C73
 Kosikova, M., 6H95
 Kosikowski, F. V., 2F29
 Kosinski, M. A., 1J70
 Koskas, J. P., 3D100, 12D221
 Kosmus, W., 5B83, 5H25
 Kosoyan, A. Zh., 3C26
 Koss, K. D., 12H41
 Koss, R. F., 4D117
 Kossman, S., 4D27
 Kossmann, A., 4G39
 Kossmann, K. T., 10J58
 Kossowsky, R., 5J67
 Kost, G. J., 2D29, 6D27, 12D43
 Kosta, L., 5C66, 9F4
 Kostareva, L. A., 4B122
 Kostenko, E. B., 6D309
 Kostenko, E. E., 5E39
 Kostenko, I. G., 1B94, 9B182, 11B34
 Kostka, V., 3D265
 Kostner, G. M., 1D179
 Kostov, G., 3J66
 Kostova, L., 11D160
 Kostova, V., 3C62
 Kostromin, A. I., 3C22
 Kostromitnova, G. M., 8B55
 Kostryukova, T. D., 7C93
 Kostyukovskii, Ya. L., 8F1
 Kosugi, K., 6D165
 Kosugi, M., 9B112
 Kosukhin, V. A., 4J171
 Kosyagin, V. G., 9C48
 Kosyuga, E. A., 3B36, 4B178
 Kosztolanyi, C., 10B100
 Kotas, P., 11B57
 Kotek, J., 9J132
 Kothan, K. A., 6C60
 Kothny, E. L., 4H21, 7H17
 Kotlyar, N. A., 2C65
 Kotlyarevskaya, G. S., 11B102
 Kotlyarov, Ya. B., 2J67, 9J69
 Kotova, V. N., 1B15, 3B48, 4B74
 Kotsev, N., 3J66
 Kotsuji, K., 2D16, 12D53
 Kottes Andrews, B. A., 12C63
 Kottke, B. A., 6D264
 Kottke, D., 8E17
 Kotz, L., 4B2
 Kotzias, D., 7H5
 Kou, A. Y., 2D149
 Koubek, J., 7F2
 Kouimtzis, T. A., 4C14, 4C42, 11A17
 Koupparis, M. A., 4B51, 6D13, 8G7
 Kouri, T., 3D186
 Kourilova, D., 3J12, 7J19
 Koussaie, F., 2C54
 Kovac, J., 5G36, 7G26
 Kovach, P. M., 7J121
 Kovacheva, E., 12G10
 Kovacs, R. M., 5J132
 Kovacs (nee Balogh), J., 2E10
 Koval, M., 3J42
 Koval'chuk, L. I., 9B46, 10B45
 Koval'chuk, T. V., 3E40, 11E32
 Kovalenko, L. I., 4E54
 Kovalenko, V. V., 5B52
 Kovalev, G. E., 3G7
 Kovalev, G. G., 8B64
 Kovalev, I. E., 3D53
 Kovalev, V. N., 5E16
 Kovaleva, E. P., 10B96
 Kovaleva, L. V., 5B150
 Kovaleva, N. A., 7B113
 Kovaleva, N. V., 1H18, 9J57
 Kovar, J., 2C60, 3D27, 11D107
 Kovar, K.-A., 1E5, 2E53, 4D178, 9E1
 Kovar, V., 5J15
 Kovarskii, N. Ya., 11H53
 Koybashin, V. I., 9B132
 Kowalska, E., 11B161
 Kowalski, B. R., 4A11, 12A12
 Kowalski, T., 8B35
 Kowalski, Z., 12B86
 Koyama, H., 9D185
 Koyama, I., 8D121
 Koyama, M., 3H31
 Koyama (Tsuda), Y., 12D85
 Koyanagi, T., 7H51
 Kozareva, N., 5E33
 Kozempel, M. F., 10D151
 Kozhanova, L. A., 1B166, 10B177
 Kozhevnikova, I. A., 5B244
 Kozicka, U., 8B125
 Kozjek, F., 6D62
 Kozloff, L. M., 7D233
 Kozlov, Yu. N., 6E29
 Kozlova, L. M., 2C30, 6C23
 Kozlova, N. V., 1C36
 Kozlowska, H., 8G2
 Kozlowski, E., 7C5, 10H74
 Kozu, T., 7F82, 10D115
 Kozub, G. I., 9F50, 11C11
 Kozukue, E., 11G23
 Kozukue, N., 11G23
 Kozuyavina, M. S., 5B138
 Kozuyeva, A. O., 6E65
 Kraack, B., 1D211
 Kraak, J. C., 1J11, 7J30, 7J32, 10J33
 Kraatz, A., 7C104
 Kracmar, J., 3E21
 Kracmarova, J., 3E21
 Kraemer, P., 5F49
 Krafur, E. S., 11J43
 Kragten, E. Y., 1D122
 Kragten, J., 2A9
 Krahm, J., 10D207
 Krainik, Yu. I., 5C27
 Krakovska, E., 11J90
 Kral, K., 5E44
 Kralj, B., 5E47
 Kralovsky, J., 2C62
 Kramarenko, V. P., 5E56, 10E30, 11E28
 Kramer, C. J. M., 12H47
 Kramer, G. H., 1D11, 4D60, 5D21
 Kramer, G. W., 9J106
 Kramer, H. L., 2D25
 Kramer, H. M., 8J75
 Kramer, J. K. G., 7D131
 Kraml, J., 7D212
 Kramlova, M., 7D212
 Krasavin, I. A., 3B50, 6B78
 Krashenyuk, A. I., 2B52
 Krasil'nikova, M. F., 10B89
 Krasil'shchik, V. Z., 6B2, 9B8, 11J89
 Krasnoschekov, V. V., 1B16
 Krasnov, N. N., 3B7
 Krasnov, N. V., 11J29
 Krasnova, N. B., 7J120
 Krasnova, N. E., 6B3
 Krasnova, N. S., 4F72, 11C11
 Krasnushkina, E. A., 1A4
 Krasnykh, A. A., 2H63, 8H88
 Krasov, V. A., 4J95
 Krasov, V. I., 9J70
 Kratochvil, B., 4B36, 12J4
 Kraus, B., 5A38
 Kraus, E., 7C21
 Kraus, L., 1E43
 Kraus, S., 12C76
 Krause, E., 12D50
 Krause, R. T., 2G21, 7F48, 7F49, 12G6
 Krause, W., 4D135, 6D126, 8D73
 Krauss, F., 1D80
 Krauss, J. S., 10D229
 Krauss, P., 12H103
 Krausse, G. L., 9H71
 Kravchenko, L. Kh., 4B105
 Kravchenko, V. A., 8B79, 11A18
 Kravchenko, V. I., 9H20
 Kravchuk, T. V., 4B174
 Krawczyk, J., 3A18, 10B55
 Krawczynska, E., 3D198
 Krawczynski vel Krawczyk, T., 12J156
 Krebs, T., 2D197
 Kreek, M. J., 6D76, 6D88, 6D229
 Kreiberga, D., 4B113, 5B148
 Kreingol'd, S. U., 6B18
 Kreisner, M., 4D124
 Krejci, M., 3J31, 7J19
 Krejzler, J., 11B48
 Kremko, L. M., 5H35
 Kremliakova, N. Yu., 1B57
 Kremling, K., 4H88B
 Kresheck, G. C., 10C63
 Kresse, H., 5D249
 Kressner, R., 5H97
 Krestan, L., 4J37
 Kretschmer, M., 4B160
 Kreutzer, H. J. H., 1D225
 Kreutzer, W., 12H85
 Kreuzfelder, E., 9D206
 Krey, D., 7J127
 Kreysel, H. W., 2D148
 Kricka, L. J., 3D6, 4D1, 5A3, 5D183, 9D12, 12J10
 Krieger, D. J., 12E39
 Krigman, A., 9J2
 Krijt, K., 9H73
 Krings, E. V., 11H17, 12H26
 Kringe, K.-P., 5D168
 Krishnamacharyulu, A. G., 10F21
 Krishnamurthy, A. S. R., 10C48
 Krishnamurthy, M., 1B81, 1E33, 4G35, 10C47
 Krishnamurthy, M. N., 4E63, 5F56
 Kristensen, T. J., 6H35
 Kristiansen, G., 6D296
 Kristiansen, K. R., 7F60
 Kristiansson, B., 10H34
 Krivan, V., 1B2, 1B95, 11D18, 12H21
 Krivit, W., 11D129, 11D130, 12D131
 Krivolutsii, K. V., 2G19
 Krivoruchko, V. M., 9B135
 Kriz, J., 3C38, 5C61
 Kriz, J. A., 5H37
 Kroenert, W., 5F6, 7F18, 8F21, 10F44
 Krogh, S., 3E47, 6E41
 Krogner, K., 12B85
 Krol, G. J., 8D89
 Kroll, J., 10F66
 Kroll, M. H., 12D156
 Kroll, S., 9F32, 11C56
 Krom, M. D., 7B70
 Kromer, B., 9J121
 Kroneis, H., 9B111
 Kronenberg, H., 10D47
 Kronick, M. N., 1J88, 4D5, 7J94
 Kronman, A. G., 11C76
 Kropf, J., 5A35
 Kropscott, B. E., 6D135
 Krost, K., 12H33
 Kroupa, J., 10C42
 Krouse, H. R., 1B66
 Krouwer, J. S., 9A18
 Kroyer, G., 6F27
 Kristulovic, A. M., 8J30
 Krtil, J., 4C67, 5B122, 5B123, 8B61, 9B84
 Kruchinina, A. A., 9E21
 Krueck, F., 5D16
 Krueger, D. A., 6F17
 Krueger, E., 1F20, 10F54
 Krueger, G., 4B111, 5H92
 Krueger, H. W., 6F17
 Krueger, I., 10D120
 Krueger, R. P., 3C69
 Krug, F. J., 2H45, 7G1
 Kruger, J. E., 12G1
 Krugers Dagneaux, P. G. L. C., 10E20
 Krull, I. S., 3J11, 4B133, 5D99, 5J60, 7J22, 9J29, 10B101, 11H44
 Krull, U. J., 5J13, 6J179
 Krunchak, M. M., 6H96
 Krunk, M. I., 9B25
 Krupcik, J., 10B161
 Kruppa, J., 8D193
 Kruse, H., 1H38
 Kruse, R., 6D246
 Krutzsch, H. C., 2D184
 Krylov, V. A., 9J56
 Krylova, A. N., 6D49
 Krylova, N. I., 9C72
 Krylina, L. S., 6B147
 Kryuchkov, V. M., 11J89
 Kryuchkova, O. I., 8J112
 Krzek, J., 8E49
 Krzyzosiak, W. J., 4D280
 Krzysova, O. V., 4J61
 Ku, W. W., 2J54, 7E25
 Ku, Y., 4F34
 Kubadinow, N., 2G12
 Kuban, V., 8H86, 8J94
 Kubasik, N. P., 4D229, 4D257, 9D141
 Kubaszewski, E., 5C37
 Kubat, J., 10C52
 Kubelka, V., 11D137
 Kubes, J., 5E55
 Kubie, T. A., 3C49, 8C57
 Kubickova, S., 9J120
 Kubin, H., 4E12

- Kubin, M., 10J21
 Kubler, B., 1B155
 Kubler, D. G., 3C4
 Kublik, Z., 3B46, 8B40
 Kubo, H., 5D81, 10D100
 Kubo, I., 2J114
 Kubo, M., 9D101, 12D240
 Kubonova, M., 11B136
 Kubota, M., 12J92
 Kubota, S., 9D171
 Kubova, J., 6B96
 Kubrakova, I. V., 11B150
 Kubysheva, N. N., 6B136
 Kucan, E., 9E4
 Kucera, J., 5C106
 Kucera, P., 4J27, 9J17
 Kuchar, E., 4B15
 Kuchar, M., 7C21, 11D86
 Kucharski, M., 2E51, 10E40
 Kuchel, P. W., 10D163
 Kucher, A. A., 5B101
 Kuczumow, A., 8A18, 8A19
 Kuczynski, J., 10C39
 Kudelin, V. K., 11J38
 Kudo, K., 6B84, 7B2
 Kudo, M., 11H9
 Kudo, S., 6D130
 Kudo, T., 10D213
 Kudoh, M., 9C70, 12H92
 Kudryashova, L. M., 4C33
 Kudryavtsev, G. V., 7J14, 9H42
 Kudryavtseva, G. S., 1B48
 Kuehl, M., 12G4
 Kuehn, N., 4E5
 Kuehne, G., 4D135
 Kuehne, H., 12C62
 Kuehnhardt, S., 3D93
 Kuei, J. C., 1J53, 4J73, 6J88, 8J59
 Kuellertz, G., 9D256
 Kuellmer, G., 8D23
 Kuennen, R. W., 2G10
 Kuga, K., 9B89
 Kuge, Y., 5H31, 6H33, 9H77
 Kugucheva, E. E., 2C26, 9C25
 Kuhn, D. M., 2D168
 Kuhnert, B. R., 4D97, 7D75
 Kuhnert, P., 7D75
 Kuhnert-Brandstatter, M., 1E2, 7E2, 12E2
 Kuhnes, U., 4J155
 Kuhr, W. G., 7J121
 Kuiper, A. E. T., 4B203
 Kuiper, S., 10D243
 Kuisl, M., 12J148
 Kujawa, M., 11C15
 Kujirai, O., 11B131, 12B146
 Kukko, E. L., 3D230
 Kuksis, A., 4D156, 4F75, 9F54
 Kukushkin, G. R., 6B106
 Kulakov, G. A., 4B92
 Kuleshov, V. I., 4J171
 Kuleshova, M. I., 6E57
 Kuleshova, O. D., 9B52
 Kulesza, P. J., 5B198, 12J160
 Kulev, I., 12B32
 Kuliev, B., 4J7
 Kulikov, A. A., 4B58
 Kulikov, E. T., 4J90
 Kulikova, A. B., 4B58
 Kulikova, G. S., 3G17
 Kulikowski, C. A., 6D234
 Kulipanov, G. N., 11J79
 Kulis, J., 2C31
 Kulish, M. A., 8D213
 Kulkarni, M. J., 4B97, 5B113, 12J96
 Kullberg, M. P., 9D89
 Kulova, L. K., 10B117
 Kulpe, S., 10B62
 Kulshrestha, S., 10B108
 Kulumbegashvili, V. A., 6B48
 Kulyabina, O. A., 4J140
 Kulyas, J., 3J106
 Kumagai, K., 5B196
 Kumakura, M., 12D195
 Kumakura, T., 2D207
 Kumamaru, T., 1B88
 Kumami, K., 10J136
 Kumanomido, H., 4J158
 Kumanotani, J., 2C14, 9D109
 Kumar, A., 5B255, 6H59, 10D223, 12B49, 12B152
 Kumar, N., 8C22
 Kumar, P., 11C41
 Kumar, R., 9D11, 11C73
 Kumar, S., 8B25, 8B25, 10J135, 10J135, 11E18, 12J155
 Kumar, T. J., 9B153
 Kumar, Y., 7H70
 Kumari, V. L., 2B30, 2B81
 Kumina, D. M., 9B23
 Kummerow, F. A., 6F37
 Kumps, A., 9D116
 Kumpulainen, J., 4F5
 Kuna, R. A., 1D74
 Kuncheva, M., 7F38
 Kuner, E., 9J82
 Kunin, L. L., 4B164
 Kuninori, T., 11D116
 Kunkel, E., 8H91
 Kuno, M., 11F2
 Kuntz, H. D., 7D84
 Kunugi, A., 7F9
 Kunz, D., 3J72
 Kunze, H., 5J5
 Kuo, C., 5C113
 Kuo, C.-H., 5B168
 Kuo, C.-I., 2B91
 Kuo, J. C., 12J44
 Kuo, M.-S., 4D146
 Kupchella, L., 4H82, 10E18
 Kuper, E. A., 1J23
 Kuperman, A. Ya., 11B61
 Kupferberg, H. J., 2D67
 Kupke, I. R., 1D111, 10D143
 Kupper, E.-W., 7D221
 Kuprina, R. V., 9B122
 Kupriyanova, T. A., 4B56
 Kura, G., 6B128
 Kurahashi, T., 8J36
 Kuramoto, S., 1D138, 3D139
 Kuramoto, T., 12D118
 Kurata, M., 8D121
 Kurata, N., 10B88
 Kurbatov, D. I., 11B142
 Kurbatova, V. I., 1B126
 Kurechi, T., 3F1, 7F9
 Kurek, E., 10C32
 Kurfuert, U., 5J86
 Kurganov, A. A., 3D140, 6D218
 Kurhekar, M. P., 4G38
 Kurihara, M., 4H25, 8H100
 Kurihara, S., 6J181
 Kurihara, Y., 5D169
 Kurita, R., 4J69
 Kuriyama, H., 2D167
 Kuriyama, K., 9D170
 Kuriyama, S., 3D105
 Kurkdjian, A. C., 3J102
 Kurkova, T. N., 4A30
 Kurland, M. L., 8D32, 8D78
 Kurochkin, V. L., 5B3
 Kurochkina, A. M., 4B19
 Kuroda, K., 10D187
 Kuroda, N., 6D316
 Kuroda, R., 2B51, 5B142, 8J46, 12B83
 Kuroguchi, Y., 6D202
 Kurohane, K., 6D161
 Kuroiwa, Y., 3D61, 5D71
 Kurokura, H., 7H44, 8H65
 Kuromizu, K., 3D266
 Kuroono, M., 8D70
 Kurooka, S., 4D90
 Kurosaki, T., 8D190
 Kurosawa, M., 9J104
 Kurosawa, N., 9D87
 Kurpiel, R., 4B77
 Kurpios, M., 2F20, 2G25
 Kurstak, E., 9D250
 Kurth, L., 8F23
 Kurtz, M. J., 1D39
 Kurtz, S. R., 4D260, 6D20
 Kurucova, M., 5G36, 7G26
 Kurzmann, G. E., 7H29
 Kusaka, Y., 9H48
 Kusakabe, H., 10F17
 Kusakabe, S., 5B11
 Kusakube, H., 11J134
 Kushchevskaya, N. F., 4B179
 Kushida, K., 4D93, 12D86
 Kushida, T., 3D145
 Kushneruk, S. A., 8J118
 Kushnir, S. V., 8C62
 Kusmiss, J. H., 6J114, 6J169, 6J172
 Kusner, Yu. S., 11J29
 Kuss, E., 8D137, 8D138, 12D139
 Kuss, H.-M., 5J106
 Kuster, B. F. M., 8C77
 Kuster, T., 4J80, 7D205
 Kustov, B. N., 5B52
 Kustov, V. V., 8D94
 Kusube, K., 8D224, 8J36, 11D223
 Kusuwi, S., 4B35
 Kusuyama, T., 9C70
 Kusyakova, N. Yu., 9B69
 Kusz, P., 3C7, 10C11
 Kuszmann, J., 10E42
 Kutbedinov, A., 5H47
 Kuthan, A., 9H79
 Kutner, W., 2J26, 4C18, 4C19
 Kutnink, M. A., 11D226
 Kutsiava, N. A., 7D133
 Kuttyrev, G. A., 4B114
 Kuusi, T., 5F40
 Kuvshinova, N. N., 2C24
 Kuwabara, H., 9J114
 Kuwabara, M., 12D118
 Kuwamoto, T., 2J84, 6H45, 8B15
 Kuwamura, T., 5D97
 Kuwana, T., 8J119, 12J169
 Kuwata, K., 5H31, 6H33
 Kuwert, E., 9D206
 Kuykendall, R. J., 6D145
 Kuzmic, D. L., 10D149
 Kuz'min, N. M., 11A23
 Kuzmin, S. V., 1J23
 Kuz'mina, T. A., 3H7
 Kuz'mina, T. V., 12D168
 Kuz'myts'ka, A. E., 10E30
 Kuznetsov, B. I., 12B10, 12J79
 Kuznetsov, L. B., 8B64
 Kuznetsov, V. I., 12B11
 Kuznetsov, V. V., 7C73, 11C27
 Kuznetsova, A. I., 7A19
 Kuznetsova, I. I., 5B55
 Kuznetsova, L. B., 8D161
 Kuznetsova, V. S., 5B126
 Kuzyakov, Yu. Ya., 1B17, 3B26, 5B133, 7B107
 Kuzyakova, N. Yu., 4B78
 Kvaratskheli, Yu. K., 6A16, 6B106
 Kvasova, V. A., 8C56
 Kwa, T. L., 5J52
 Kwakman, P., 8H89
 Kwan, L. C., 9E27
 Kwapulinska, G., 12B46
 Kwast, M., 2F35, 8F43
 Kyla-Siuroala, A.-L., 6F48
 Kynast, G., 1D21
 Kyrein, H. J., 7D138, 7D139
 Kyrns, M., 5B260, 6A9
 Kyrychenko, L. O., 6E43
 Kyte, J., 4D236
 Laakso, E. I., 7D119
 Laakso, I., 4D144, 4J57
 Laane, R., 8H76
 Labbe, R. F., 4D269, 4D273
 Labrecque, G., 4D102
 Labrecque, J. J., 4B192
 Labuda, J., 6B60, 11J143
 Labudzinska, A., 5B186
 Labulle, R., 9B26
 Lachatre, G., 6D57, 11D79
 Lachowicz, E., 10B40
 Lackner, R., 8D253
 Lacour, G., 8H74
 Lacroix, C., 3D47, 12D94
 Lacroix, R., 12B186
 Lad, P. J., 4D302
 Lada, W., 2J106
 Lada, Z., 4B101
 Ladenson, J. H., 1D12, 1D137, 4D29, 5D17, 10D14, 12D75
 La Droite, P., 7D116
 Ladwein, T., 6J186
 Laessig, R. H., 9D183
 Laebli, M., 8J125
 Laebli, M. W., 5J169
 Laeven, J. M., 10A16
 Lafaye de Micheaux, D., 5C40
 Lafosse, M., 8J25
 Lagana, A., 2D136, 7D143, 11J37, 12D141
 Lagarde, M., 2D150
 Lagergren, C. R., 7J97
 Lagerkvist, S., 7D171
 Lagerstrom, P.-O., 9E55, 12D90
 Lagu, A. L., 3E16
 Lagunov, M. D., 11B169
 Laha, D., 7E37
 Lahdesmaki, P., 7D173
 Lahikainen, T., 6J22
 Lahiri, P., 10B41
 Lahita, R., 4D184, 6D76
 Lahtipera, M., 5G31, 11C17
 Lai, C. S., 7F34
 Lai, J. C. K., 2D9
 Lai, J. W., 2D166
 Lai, S.-T., 11C74
 Laignelet, B., 4F19
 Laine, G., 12D94
 Laine, R., 2F1
 Laipanova, A. Kh., 8E83
 Laitinen, M., 4D264
 Laitinen, R., 11C17
 Lajunen, L. H. J., 3B4, 5H24, 7B27, 9B144, 12D41
 Lakatos, I., 10C80
 Lakatos, J., 10C80
 Lake, B. G., 2D133
 Lake, D. L., 10H90
 Laker, M. F., 8D4, 10D159
 Lakings, D. B., 10D94
 Lakkisto, U.-M., 6J108
 Lai, K. B., 4B45, 10B13
 Lal, N., 3G3
 Lalande, M., 4D102
 Lalevic, B., 4J7
 Laloux, J., 2E57
 Lam, K., 9H26, 9H27
 Lam, N. K., 5H54
 Lam, S., 11D94, 12D163, 12J68
 Lam, S. T., 9J78
 Lamarre, C., 8C58
 Lamb, S. I., 9H25
 Lambelet, P., 2F31, 11F39
 Lambert, D. C., 10C54
 Lambert, J. A., 9B177
 Lambert, J. B., 1A2B
 Lambert, J. L., 4H20
 Lambert, T., 2D67
 Lambert, W. E., 5D152
 Lamberto, S., 5J26
 Lambin, P., 4D252
 Lambouef, Y., 7D116
 Lambrechts, M., 9E39
 Lambrou, F., 3D158, 3D189
 Lamer, W., 11J21
 Lamers, C. B. H. W., 1D148, 3D170
 Lammers, N., 11J31
 Lamola, A. A., 9D223
 Lamoureux, G., 6D23
 Lamparelli, F., 10F65
 Lamparski, L. L., 5J55
 Lampi, B., 5D230
 Lampugnani, L., 3A19, 9J87, 11J12
 Lamy-Pitarra, E., 5B284
 Lancaster, F. E., 7F25
 Lancaster, J. E., 5F38
 Lance, C., 4D305
 Landers, D. H., 4H48
 Landersman, P. W., 6D209
 Landgraf, E., 9G18
 Landi, S., 8F20
 Landis, J. B., 2E20

- Landis, P. W., 7J106
 Landon, D. N., 12D125
 Landon, J. L., 1D50, 3D203, 4D198, 5D155, 7D194, 8D203
 Landrum, P. F., 2H59
 Landsberger, S., 3H51, 6H41, 6H43
 Landt, M., 1D137, 2D20, 8D35, 12D8, 12D36
 Landy, J. S., 8J27
 Landyshev, A. V., 3B6
 Lane, J. L., 7C58, 8C7
 Lanford, W. A., 12J131
 Lang, D., 9J82
 Lang, H., 9D108
 Lang, I., 3C52
 Lang, J., 4D31, 4J81
 Lang, J. F., 11D93
 Lang, J. R., 1E10
 Lang, Y., 1J73
 Lange, A., 4B130, 4B131, 9B124
 Lange, M. A., 10J130
 Lange, R., 1D26
 Langenberg, J. P., 8D223, 12D222
 Langer, G., 5J132
 Langford, C. H., 9B116, 9H38
 Langham, W. S., 11G38
 Langhorst, M. L., 5H30
 Langland, J. K., 12J137
 Langlous, H., 2E53
 Lankelma, J. V., 10A16
 Lankmayer, E. P., 4J31
 Lankosz, M., 11B36
 Lannefors, H., 4H11
 Lanska, B., 9C77
 Lanteri, S., 9A19
 Lantto, O., 7D149
 Lantzsch, H.-J., 6G2
 Lanza, E., 1F10
 Lanza, P., 5H90, 9B190
 Lanzer, G., 4D31
 Lanzillo, J. J., 3D264
 Laperashvili, L. Ya., 2J9, 12J69
 Lapeza, C. R., jun., 2D118, 8D93, 8D101, 8D102
 Lapin, L. M., 6J86
 Lapkina, Z. S., 11C72
 Lapkowski, M., 3A18
 Lapointe, M., 10F38
 La Porta, E., 3E42
 Lappalainen, R., 5B10
 Lappas, N. T., 5D44, 5D50, 12D202
 Laqua, K., 4J119
 Large, D. G., 1D89, 4C13
 Larionov, V. V., 3C2
 Larkins, F. P., 1C27
 Larmour, I., 1D169
 Laroque, L., 8F26
 Larsen, E., 10B113
 Larsen, G., 2D123
 Larsen, I. L., 6G9
 Larsen, J., 1D106
 Larsen, R. P., 5H52
 Larson, J. R., 7J34
 Larson, P. A., 6J89, 10F11
 Larsson, B., 10F3
 Larsson, L., 11D259B
 Larsson, M., 6H33
 Larsson, P.-O., 5D221
 Lasa, J., 5J56, 7J67
 Lascu, I., 9J39
 Laserna, J. J., 1B49, 2B75, 5B76
 Laseter, J. L., 3F84
 Lasher, C., 5D64
 Lasher, C. M., 3C49
 Laskaris, M., 11D200
 Laskawy, G., 10D129
 Lasky, F. D., 4D118
 Lasley, S. M., 8D146
 Lasne, F., 4D246
 Lasne, Y., 4D246
 Lasswell, L. D., III, 3C65
 Last, T. A., 7E26, 7J38
 Laszlo, S., 12D17
 Lasztity, R., 4F59, 10F13
 Latche, A., 6F57
 Later, D. W., 6C45, 12C34
 Latif, S., 3B22, 3H14, 11G34
 Lattanzio, L., 12D95
 Lattard, C., 6C17
 Lattimer, R. P., 7C79, 12C79
 Latysheva, G. N., 10B169
 Latz, H., 5E31
 Lau, D. C.-W., 6H94
 Lau, O.-W., 6B62
 Lau, W. M., 3H5
 Laub, R. J., 2J52, 2J56, 7C45, 7J63, 10A18, 10J16, 10J17
 Laubach, C., 6D173
 Lau-Cam, C. A., 12E23
 Laude, B., 4G27
 Laudet, A., 4E42
 Lauer, H., 7D152
 Lauer, H. H., 1J29
 Lauer, J., 4D266
 Laufen, H., 2D88
 Laufer, P., 6E5
 Laughlin, K. B., 6J96
 Launer, J. E., 2G23
 Launer, P., 7G38
 Laurent, C. J. C. M., 2E7, 8J22, 10E8, 11D198
 Laurenzi, A., 12C6
 Laureri, C. F., 7D162
 Lauriault, G., 9E19
 Laurikainen, E., 2D86
 Laurinat, B., 3C70
 Laurs, J., 2C15, 8C11
 Lautenschlaeger, W., 10J97
 Lauterbach, K., 3F2
 Lautner, G. M., 6H31
 Lauven, P. M., 1D52
 Lauwerys, R. R., 1D154
 Laux, J. E., 8D255
 Lavale, S. C., 3B56, 6B83
 Lavery, D. S., 4J137
 Lavi, N., 4J159, 5B107, 10D44, 11B110, 11C39
 LaVoie, E. J., 8D157
 Lavoie, J. M., 2C78
 Lavrenova, G. I., 5D255
 Lavreshin, A. N., 8D62
 Lavy, T. L., 5G35
 Lavy-Feder, A., 12J170
 Law, B., 5D75, 6D98, 6E10, 10D64, 10D65
 Law, H. H., 7B34
 Law, M. W., 4F60
 Law, S. L., 7H13
 Lawrenz, A., 11H31
 Lawn, R. E., 4G20
 Lawrence, A. H., 2C60
 Lawrence, D. M., 2J70, 9J84
 Lawrence, J. F., 4H87B, 5F50, 7F25, 7F56, 7F81, 9F39
 Lawrence, K. E., 10J96
 Lawrence, M., 5J2
 Lawrence, R. C., 8C73
 Lawrie, T. D. V., 5D142
 Lawson, A. M., 3D125
 Lawson, K. H., 2J47, 6J66, 11J54, 12J58
 Lawson, M., 12J80
 Lawson, V., 6D189
 Lawson-Matthew, D., 12D18
 Lay, J. O., jun., 8J51
 Lazader, W. B., 2B46
 Lazarev, B. G., 4B156
 Lazareva, G. A., 7B14
 Lazaris, A. Ya., 3C67
 Lazaro Boza, F., 10B30
 Lazarova, M., 11E53
 Lazarus, L. H., 11D184
 Lazeeva, G. S., 2D36, 8J5
 Lazure, C., 3D159
 Lazur'evskii, G. V., 9E15
 Lazzeri, L., 12D79
 Leach, R. A., 4B28
 Leach, S. F., 4D86
 Leadbetter, B. M., 2D68
 Leander, E., 4D79
 Leaver, M. E., 7B32
 Leavitt, R., 6H99
 Leb, G., 6D221
 Lebecq, J. C., 9D8
 Lebedev, A. G., 8J74
 Lebedev, I. A., 5B125
 Lebedev, N. V., 9J70
 Lebedev, Yu. V., 11J116
 Lebedeva, L. I., 3B84, 4B165, 7B5, 7B153
 Lebedeva, M. I., 8E22
 Lebedeva, N. A., 7B16
 Lebedeva, O. A., 9J129
 Lebedinskaya, L. F., 6J86
 Lebedinskii, N. A., 11B70
 Lebel, B., 3D136
 LeBel, G. L., 8H93
 LeBel, M., 11D51
 LeBevec, Y., 12J124
 Lebl, M., 4E30
 Leboda, R., 3J56, 4J63
 Lecaillon, J.-B., 9D78
 Le Calonne, D., 9B26
 Lechtenboerger, K., 4J26
 Leclaire, R., 2D59, 6D124
 Leclerc, A., 2D57
 Leclercq, E., 9D154
 Leclercq, P. A., 6D121
 Le Cloirec, C., 3H63
 Le Cloirec, P., 3H63
 Lecomte, D., 4E52
 Lecomte, R., 3H51, 6D23, 6H43
 Lecomte-Yerna, M. J., 4D322
 Ledbetter, J. O., 5H1
 Lederer, M., 4D286
 Ledl, F., 11F6
 Ledley, R. S., 10D197
 Ledovskikh, N. G., 7H21
 Ledudal, P., 7D76
 Le Duigou, Y., 2A6, 5A15, 9A15
 Lee, A. F., 9B7
 Lee, C., 5D68
 Lee, C. C., 7D248, 12C18
 Lee, C.-S., 2B44
 Lee, D. M., 8B60
 Lee, G. M., 11D215
 Lee, H.-B., 2H3, 2H61, 7H69
 Lee, H.-C., 12B163
 Lee, H.-F., 12B163
 Lee, I. R., 10D204
 Lee, J., 2B5, 3D25, 10D17
 Lee, J. H., 5J176
 Lee, J. T., 4D46, 9D58
 Lee, K., 3F14
 Lee, L. S., 4D42
 Lee, M., 1D23, 11D11
 Lee, M. L., 1J53, 2J55, 3J58, 4D222, 4J73, 6C45, 6J40, 6J43, 6J88, 8J59, 9J59, 11J47, 12J53, 12J62
 Lee, N. E., 4D298
 Lee, R., 3D208
 Lee, R. H., 4D72
 Lee, R. J., 11H1, 11H7
 Lee, R. M., 2D98, 8D79
 Lee, R. Y., 9J4
 Lee, S., 7F11
 Lee, S. C., 10G5
 Lee, S.-C., 4D222
 Lee, S. H., 5J112
 Lee, S. Y., 6G9
 Lee, T., 4D168
 Lee, T. L., 11D50
 Lee, W.-N. P., 8A23
 Lee, Y.-C., 5E57
 Leeflang, P., 6D121
 Leek, A., 6D191
 Leenders, K. L., 6D61
 Leeuwenkamp, O. R., 8E69
 Lefebvre, G., 3C18
 Lefevre, C., 11H23
 Lefevre, G., 3D102
 Leffert, H. L., 4D302
 Leffert, R. L., 6D181
 Lefier, D., 2F24
 LeGeros, R. Z., 11D20
 Legge, G. J. F., 12D15
 Legge, M., 4D149
 Leggett, H. G., 12D121
 Lego, M. C., 6F63
 Le Goff, B., 8F15
 Legrand, J., 2B48
 Legrand, J. C., 7D182
 Legrand, M., 8H43
 Lehman, W., 8D54
 Lehmann, E., 9H8
 Lehmann, G., 12C57
 Lehmann, J., 4D293
 Lehmann, P., 9D133
 Lehotay, J., 10G22, 11G32
 Lehrle, R. S., 5C102
 Lehrman, S. R., 12D165
 Lehto, J., 4F5
 Lehtola, T., 7E6
 Lehtonen, M., 8F61, 8F62
 Lehtonen, P., 3C33
 Lei, M.-G., 4D240
 Leibowitz, M. J., 11D187
 Leichnitz, K., 5H7
 Leighty, D. A., 5J105, 12J100
 Leijnse, B., 1D96, 5D140, 5D197, 6D182, 6D257, 10D143
 Leika, Z. A., 5G38, 7G34
 Leiner, M., 9F57
 Leinert, J., 9D243
 Leisztner, L., 2A15, 7D130, 11A23
 Leith, H. M., 8D132
 Leitis, L., 6A1
 Leja, B., 2E49
 Lejeune-Lenain, C., 2D155
 Lekova, K., 3J52
 Lema, J., 10J19
 Lembeck, F., 6D114
 Lemerkovics, E., 10C65
 Lembo, S., 3D89
 Le Meur, J. F., 3F17, 8A10
 Lemli, J., 2E4
 Lena, N., 1D67
 Lenahan, R., 11H58
 Lencioni, E., 12D79, 12E60
 Lenczyk, M., 12D130
 Lendero, L., 4J76, 9J61
 Lenev, L. M., 10B89
 Lenglet, M., 9B26
 Lenglet, W. J. M., 11D16
 Lengyel, J., 4C67
 Lennhoff, H. M., 5D256
 Lennox, E. S., 6F28
 Le Nours, H., 3F17, 8A10
 Lento, H. G., 2F3
 Lenzen, S., 5J8
 Leon, L. E., 1B33, 3B110
 Leonard, F., 4H23
 Leonard, J. V., 9D169
 Leonard, M., 8B5
 Leonard, M. A., 10B128
 Leonas, K. K., 8C80
 Leone, R. M., 8D176
 Leonhardt, D., 6J102
 Leonhardt, J., 10J77
 Leoni, A., 11G7, 11G8
 Leoni, O., 5G8
 Leonova, G. S., 4C20
 Leonova, V. V., 10B96
 Leont'eva, L. B., 4B55
 Leont'eva, S. A., 8C56
 LePage, J. N., 1C8
 Lepage, R., 10D228
 LePage-Degivry, M. T., 10D130
 Lepkikhina, N. A., 8B46
 Leppkes, R., 5J169
 Lepri, L., 2D186, 4D219, 8H77, 12D145
 Lerche, A., 3D229
 Lercker, G., 8D172
 Lerdal, D., 1G8
 Lericque, D., 6H63
 Lerner, B., 12C76
 Leroux, J. P., 9D120
 Leroy, P., 4E13, 7E29, 11D149
 Lesgards, G., 10E17
 Lesnm, R., 12J68
 Lesko, L. J., 3D66
 Leskovar, B., 9H5
 Leslie, P., 3D205
 Lessard, F., 10D228
 Lessard, L., 9B180
 Lester, E., 12D149

- Lester, J. N., 5H74, 6H103, 6H104, 7H76, 10H90
 Leszczynska, J., 8F52
 Leszczynski, D. E., 6F37
 Letokhov, V. S., 4H60, 4J128, 4J141, 11J101
 Letolle, R., 5C89, 6C4
 Leuenberger, U., 2F25
 Leung, F. Y., 4D300, 6D38, 6D243, 7D236, 9D43
 Leuprecht, R., 11B101
 Leuschke, W., 4D58
 Leuvers, J. H. W., 8D208
 Lev, I. E., 4B156
 Le Van So, 4B64, 4J44, 5B61, 5B62
 Leveno, K. J., 7D49
 Leveque, M. J., 6D116
 Levert, C., 3D47
 Levesque, D., 6H89
 Levi, F., 1J43
 Levin, J. O., 4H37
 Levin, J.-O., 2H30, 5H32, 8H31, 12H30, 12H38
 Levin, S. S., 6D179
 Levina, N. A., 4B194
 Levina, N. B., 10D176
 Levine, B., 2D85, 3D55, 3D64
 Levine, J. B., 10D2
 Levine, R. L., 12D165
 Levine, S. L., 3J115
 Levinson, P. D., 12D154
 Levitin, A. I., 9B176
 Levitman, Kh. Ya., 8B111
 Levitt, B., 11D219
 Levitt, M. D., 2D116, 10B22
 Levens, K., 4C66, 5C87, 10J39, 11J28
 Levy, D. P., 7B108
 Levy, E. J., 8J61
 Levy, G., 2D71
 Levy, J. M., 6C40, 11C5
 Levy, M., 9D61
 Levy, R., 10F6
 Levy, R. H., 10D84
 Levy, S., 1E34
 Lew, T. S., 4D142
 Lewandowska, I., 2C72
 Lewenstam, A., 12J156
 Lewin, E. E., 12H11
 Lewin, J. F., 7D6
 Lewinsohn, E., 8D212
 Lewis, A. J. M., 9G8
 Lewis, A. L., II, 6B38
 Lewis, B. L., 12H86
 Lewis, C. W., 1H3, 11J3
 Lewis, I. C., 5B129
 Lewis, J. J., 4C90
 Lewis, K. W., 5D46
 Lewis, L. L., 10D36
 Lewis, M. F., 10D167, 10D168
 Lewis, S. F., 7F87
 Lewy, A. J., 4D223
 Lexa, J., 1B121, 5B171
 Leybold, K., 1D211
 Leyden, D. E., 6H42, 11A6B
 Leyland-Jones, B., 10D74
 Leytus, S. P., 4D321
 L'Heureux, L., 9F22
 Li, A., 7J66, 8B49, 9C56
 Li, A. G., 11B165
 Li, B., 2F22, 7D239, 7G16, 11E9, 12J75
 Li, B. W., 1F19, 4F47
 Li, C., 5B42, 6B181, 6D30, 7B36, 9B109, 9C92, 10B122, 11B95, 12J158
 Li, D., 10B119, 12B76
 Li, G., 9J100
 Li, H., 5C67, 7E5, 9C49, 10B166
 Li, J., 8E25, 10B60
 Li, L., 3B14, 5B99, 7B61, 8B33, 12C74
 Li, M., 4B129, 12B40
 Li, P., 3C66
 Li, P. K., 4D46, 9D58
 Li, Q., 9B24
 Li, R., 2D8, 5C20, 7D111, 9B184
 Li, R.-S., 3B38
 Li, R. T., 7G29
 Li, S., 3J1, 5B87, 8B70, 8C61, 9C45, 12B125
 Li, S.-C., 3D211
 Li, T. M., 4J10
 Li, V. Ts., 1J9
 Li, W., 5B253, 8B59, 9C45, 9E16
 Li, X., 5B87, 9C42, 12B88
 Li, Y., 4B104, 5B151, 6E20, 12J158
 Li, Y.-C., 4G39
 Li, Y.-T., 3D211
 Li, Z., 3B109, 3H45, 6B45, 6B143, 7D48
 Liang, B., 11J122
 Liang, D., 5B195
 Liang, H., 6B77
 Liang, S., 8B58
 Liang, X., 6B51
 Liao, M., 3H50
 Liao, W., 10B122
 Liao, X., 10B122
 Liao, Y., 9C56
 Liautard, J.-P., 3D224, 10D232
 Libadia, J., 9D173
 Libbey, L. M., 5D124
 Liberato, D. J., 4D70
 Liberatori, J., 7D184
 Liberti, A., 6H8, 6J85, 11H13, 12C78
 Lichtenstein, N., 4C89
 Lichtenthaler, H. K., 4D272
 Lichtenthaler, R. G., 6H91, 7H55
 Lichti, D. A., 12D75
 Lichtman, D., 1B9
 Liddle, J. A., 2D118, 8D93, 8D101, 8D102
 Liddle, J. R., 8B97
 Liden, J., 2H40
 Liebenberg, C. J., 8B117
 Lieberman, E. M., 6D219
 Lieberman, M. W., 11D214
 Liebes, L. F., 1D198, 6D289
 Liebezeit, G., 6D268
 Liebich, H. M., 4D154, 7D122
 Liebmann, R., 10B74
 Liebowitz, D. P., 5H37
 Liedtke, R. J., 6D190
 Liehr, J. G., 5D144
 Liem, I., 12B61
 Lienemann, P., 4D206
 Lienig, D., 11H31
 Lierse, C., 11B63
 Lieser, K. H., 4J94, 9B86, 10A8, 11B59
 Liewendahl, K., 12D171
 Liezers, M., 10C86
 Lifshitz, A., 8F42
 Liggett, W., 9B83
 Ligorati, M., 7E34
 Lippo, K., 4D264
 Lill, G., 11D22
 Lillehoj, E. B., 4F25
 Lilley, T., 11A19
 Lilliott, E. L., sen., 8C99
 Lim, C. K., 1D94, 3D1, 5D213, 7D209, 7D210, 10C16
 Lima, J. J., 12D72
 Limacher, W., 2F25
 Limbert, M., 7D50
 Limkeman, M., 1J75
 Lin, B., 7J66
 Lin, C., 9B98
 Lin, C. C., 11H51
 Lin, C.-Y., 10J127
 Lin, F.-G., 12J68
 Lin, G., 7B100
 Lin, G. J., 9D148
 Lin, H., 8A3, 9B133
 Lin, J., 2B37, 9E29
 Lin, J.-L., 6B150, 8B124, 9B140
 Lin, J.-T., 7D146, 11D147
 Lin, K.-T., 6D122
 Lin, L., 10D157
 Lin, L. S., 9D76
 Lin, M., 8B112
 Lin, P. Y. T., 10D157
 Lin, R., 6B142
 Lin, R.-L., 3D56, 8D32, 8D78
 Lin, S., 7B57
 Lin, S. H., 5D190
 Lin, S.-J., 1E32, 6B24
 Lin, S.-M., 8D13
 Lin, S.-N., 1D77
 Lin, S.-W., 12B108
 Lin, T., 12B19
 Lin, W. H., 5D190
 Lin, W.-Y., 5C4
 Lin, X., 6B51, 9B98, 10J119
 Lin, Y., 9B78
 Lin, Y. Y., 9D248
 Linari, G., 4E61
 Lind, B., 3D19
 Lindahl, I., 10D240
 Lindahl, R., 12H30
 Lindahl, U., 7D256
 Lindau, C. W., 11G15
 Lindback, B., 7D149
 Lindberg, A. O., 3D103, 3F20
 Lindberg, R., 2D86
 Lindberg, R. L. P., 2D82
 Lindblad, T., 8J117
 Lindblom, H., 3D201, 4D239
 Linde, H. G., 1C37
 Linde, H. W., 8D59
 Linde, S., 2D185, 8D178
 Lindelauf, F., 6D115
 Lindenboom, R. H., 1H13
 Lindfors, A., 11D60
 Lindgren, B., 3G16
 Lindgren, J. E., 9D45, 9D62
 Lindner, E., 12A18
 Lindner, W., 9C3, 10J35, 11G28
 Lindquist, L. O., 8B60
 Lindroos, C. M. G., 12J147
 Lindroos, O. F. C., 12J147
 Lindsay, A. S., 11C42
 Lindsay, R. C., 7F66
 Lindstedt, G., 4D229, 8D181, 11D178
 Lindstrom, I. S., 10B93, 12B13
 Lindstrom, K., 9D103
 Lines, C. B., 8E74
 Lines, R. W., 12J175
 Linfield, W. M., 4C72
 Ling, I. N. C., 7B137
 Ling, Y., 10D31
 Lingappa, S., 10G23
 Lingge, H., 1J112
 Link, S. O., 2E12
 Linnet, K., 4D204
 Linnoila, M., 1D135, 3D99
 Linow, F., 1D26
 Linow, K. J., 12C69
 Linsenmann, O., 6F73, 7F84
 Linsen, J. P. H., 5F35
 Linthicum, L. M., 10D84
 Liogon'kaya, T. I., 10B112
 Liou, R., 5D207
 Lipinska, I., 5B136, 5G16
 Lipkan, H. M., 6E63
 Lipovskii, A. A., 4B92, 5B119, 5B120
 Lipp, E. D., 8J72
 Lippes, J., 5D209
 Lippmann, M., 1H6
 Lippo, H., 7B27
 Lippolis, M. T., 8G4, 9H67
 Lippstreu, D. L., 9C69
 Lips, M. J., 12D30
 Lips, P., 10D243
 Lipsbergs, I., 4C11
 Lipsky, S. R., 1J49, 6J81, 12J63
 Lipus, G., 10F62
 Lisetskii, V. N., 7J136
 Lishajko, F., 6D226
 Lishman, J. P., 4H65
 Lisichkin, G. V., 7J14, 9H42
 Liska, O., 10G22, 11G32
 Liskamp, R. M. J., 2D58
 Lisovskii, I. P., 3B48
 Lister, R. G., 6D94
 Liston, M. D., 4J8
 Listov, S. A., 2E21
 Liteanu, C., 7C98
 Litman, D. J., 4D72
 Litschko, E., 3D258
 Little, C. J., 2J11, 10J35
 Little, M., 10D206
 Little, R. R., 1D187, 1D188
 Littlejohn, D., 1D31, 2J74, 6J139, 9B10, 9J93, 10J90
 Littmann, S., 9F16, 11F19
 Litvin, E. F., 9C2, 10J64
 Litvinenko, G. S., 9C21
 Litvinenko, N. I., 8B120
 Litwinski, G. R., 7J5
 Litzstorf, G., 5H11
 Liu, A., 8A3, 9E10
 Liu, B. Y. H., 10A3B, 11J3
 Liu, C., 9E26, 12D39
 Liu, C.-Y., 11B114
 Liu, D., 4B76, 6B77, 12B64, 12B65
 Liu, E., 10D101
 Liu, F., 2B61, 5A4, 9J40, 12H61
 Liu, F. Y., 11D245
 Liu, G., 3H49, 9C50, 12B145
 Liu, H., 3B98, 4E14, 10B122, 11E13
 Liu, J., 3C12, 4H52, 5B106, 6J132, 12C74
 Liu, K., 7D153
 Liu, L., 6B51, 6B82
 Liu, M., 9E17
 Liu, Q., 6B53, 9B96
 Liu, R., 9E16
 Liu, R. H., 2J54, 7E25
 Liu, S., 2B76, 5B73, 5B99, 6B74, 7B45, 7H38, 9B145, 12H57
 Liu, T. S., 8D148
 Liu, W., 9E17
 Liu, X., 7B63, 9B65, 9C92, 12E43
 Liu, Y., 2F22, 4D112, 6J182, 7B45, 9B15, 9B145, 9F15, 12B19, 12D59, 12H61
 Liu, Z., 2B37, 7B45, 7B98, 9B145, 9J100, 11B122, 12B127
 Liu, Z. Q., 3D184
 Luukkonen-Lilja, H., 5F40
 Livanos, G., 10G28
 Liverani, L., 6D124
 Liversidge, G. G., 4D130
 Livesey, J., 2D182
 Livesey, N. T., 10B172
 Li Wan Po, A., 9J20, 11E14
 Lizana, J., 3D202
 Lizogub, A. P., 8C27
 Lizondo, M. J., 7C60
 Lizunova, G. M., 2E38
 Lizzani-Cuvellier, L., 5C40
 Llabador, Y., 12D47
 Llauro, J. G., 9J122
 Llewellyn, C. A., 2H64
 Llinas, M., 5B211
 Lobat Estelles, M., 6C63
 Lloyd, J. B. F., 5J41
 Lloyd, M. H., 6B56
 Lloyd, R. J., 9J54
 Lo, D. S.-T., 3D32
 Lo, H.-S., 12E55
 Lo, J. M., 5H45
 Lo, T. B., 8D134
 Lobach, A. V., 12D168
 Lobanov, F. I., 1B92, 4B14, 7B49
 Lobers, W., 3D152
 Lobkova, M. Ya., 5E7
 Lobo, P. I., 12D204
 Lochmueller, C. H., 2C13, 4H43
 Locke, D. C., 5H50, 11C74
 Locke, J., 1J60, 4B200
 Locniskar, A., 6D93
 Lodding, A., 7J103
 Lode, H., 1D44, 6D64
 Lodge, B. A., 8E86
 Lodi, G., 11C57
 Lodigiani, P., 5F34
 Lodkowski, R., 10J22, 10J27
 Loebner, J. G., 5D193
 Loesch, C. H., 6D185

- Loescher, B., 4H51
 Loester, H., 7D166
 Loewenstein, M., 2F28
 Lofstedt, C., 11G41
 Logachev, V. F., 8H88
 Logan, A. G., 1D61
 Logan, R. W., 4D172
 Loginova, E. V., 6B18
 Loginova, L. P., 8B42
 Loginova, N. B., 12C59
 Loginova, N. F., 11E41
 Logunova, S. V., 1B29
 Loh, T. P., 5C20, 7D111
 Lohman, J. J. H. M., 6D52, 11D65
 Lohmeyer, S., 8H95, 9H86
 Lohse, P., 1D180
 Loiseau, B., 3H44
 Loken, H. F., 9D22
 Lokey, N., 11G30
 Loktev, S. M., 6C8
 Lomaeva, S. F., 4J140
 Lomakina, L. N., 9B170
 Lombardi, C. C., 10J150
 Lombosi, E. R., 2J40
 Lombosi, T. S., 2J40
 Lomecky, M. Z., 2D131
 Lomsadze, B. A., 7D133
 Lone, M. A., 8J118
 Long, C. L., 7C97
 Long, D. A., 9E25
 Long, G. L., 1J70
 Long, L.-T., 7E36
 Long, M. A., 12J70
 Long, P. A., 7J6
 Long, S. E., 5J101
 Long, Y., 3B74, 11C32
 Longbottom, J. E., 7H71
 Longenecker, G. L., 4A32
 Longeray, R., 3D126
 Longhi, P., 4A7, 9J124
 Longhurst, T. H., 12B70
 Longo, D., 4D28
 Longstaff, C., 4J149
 Lontay, K. E. M., 10G25
 Lontsikh, S. V., 7B47
 Loo, J. C. K., 10D78
 Loo, T. L., 1D65
 Look, D. C., 8B138
 Loomis, C. W., 3D134, 10D110
 Loomis, K. F., 11D38
 Loonen, M. C. B., 6D146
 Loos, G., 4B111
 Looser, S., 3D272
 Loos-Neskovic, C., 5B167
 Lopatko, V. N., 7B59
 Lopez, B., 6J168
 Lopez, J., 12F35
 Lopez, J. A., 5D101
 Lopez-Cueto, G., 12B133
 Lopez Fernandez, J. M., 5A8, 12B141
 Lopez Fonseca, J. M., 2E32
 Lopez Garcia, I., 5B166
 Lopez Mayorga, O., 4D317
 Lopez-Rivadulla, M., 7D190
 Lorand, L., 1D164
 Lorber, A., 9A30, 9A31
 Lorch, Y., 5H46
 Loree, T. R., 3J79
 Lorentz, K., 1D212
 Lorenz, O., 9C82
 Lorenz, W., 5D112
 Lorenzen, W., 6D37
 Lorenzin, F., 12D203
 Loriaux, B., 3E22
 Lorkowski, H.-J., 10C77
 Lorusso, S., 9F1, 9G26
 Loscombe, C. R., 4J23
 Loshon, C. A., 8D241
 Loss, R. D., 5A17, 11J110
 Lotfi, E. A., 7E45
 Lott, J. A., 6D209, 6D242
 Lottenberg, R., 3A2
 Lotz, F., 7D32
 Lou, Y., 9E29
 Loubinoux, B., 2D137
 Louie, H. W., 5F26
 Louis, R. E., 10B76
 Louis, W. J., 7D92, 8D77, 11D159
 Louvrier, J., 11B73
 Lovcius, A., 5B119
 Love, G., 11J82
 Love, L. J. C., 6J143, 11J102, 12C36, 12C39, 12J105
 Love, T. W., 4J8
 Loveland, P. M., 5D124
 Lovell, M. A., 3G5
 Lovell-Smith, C. J., 12D241
 Lovering, E. G., 3E38, 5E35, 8C73
 Lovgren, T., 10D8
 Lovgren, T. N.-E., 2D139, 4D327
 Loving, T. J., 7J112
 Lovkvist, P., 10H35
 Lovtysus, A. V., 4B92
 Low, L. K., 1D69
 Lowden, J. A., 2D145
 Lowe, C. R., 7D9
 Lowe, D. M., 5H51
 Lowe, J. E., 2D217
 Lowenthal, A. A., 12D164
 Lowenthal, G. C., 2J104
 Lowenthal, S., 1J61
 Lewis, S., 5D174
 Lowry, B., 11B28
 Lowry, O. H., 5D220
 Lowry, P. J., 7D194
 Lowry, S. P., 4D153
 Lowry, S. R., 3A17
 Lowy, D., 8C70
 Lozano, J. A., 4D317
 Lozano-Ruy, S. J., 9D139
 Lozoya, X., 3E15, 8E5
 Lozynski, M., 5C37
 Lu, A., 2B38
 Lu, B., 4B99
 Lu, C., 6J175, 7D257, 7J13B, 12B45
 Lu, D., 5C20, 7D111
 Lu, G., 3B54
 Lu, H., 9D112
 Lu, H. S., 5D179
 Lu, H., 5E21
 Lu, M., 8D87
 Lu, P., 5C67
 Lu, Q., 4B104
 Lu, S., 10J133
 Lu, S.-J., 8B11, 10B91
 Lu, W., 6J100, 6J156, 9B121, 9C49
 Lu, Y., 6C30, 9C9
 Lu, Z., 1J12, 5B63, 5B249, 10B75, 10J133, 12B107
 Lu, Z. A., 5D190
 Lubahn, D. B., 7D195
 Lubecki, A., 1B74
 Lubman, D. M., 1J88, 7J94
 Lubs, P. L., 2H26
 Lucertini, S., 8D195
 Luchko, Yu. M., 5C81
 Lucht, N., 6D212
 Luckas, B., 6D37
 Luckhurst, D. G., 3D194
 Ludden, L. K., 2D96
 Ludden, T. M., 2D96
 Ludke, C., 6J135
 Ludvigsen, C. W., 4D158
 Ludwicki, J., 2F35, 5F39, 8F43
 Ludwig, D. A., 3H4
 Ludwig, E., 2B82
 Ludwig, W., 5B82
 Luebke, M., 5C63, 12C47
 Lueck, H. B., 5J146, 5J147
 Lueddecke, E., 8J134
 Luedke, C., 4H17, 9J101
 Luft, B., 5B169
 Luft, R., 5C40
 Lugari, M. T., 8G12
 Luginin, V. A., 6B81, 6B145, 9B2
 Lugtenburg, J., 6J112
 Luigart, F., 8C90
 Luiken, J., 9D201
 Luisi, G., 7D97
 Luisi, P. L., 5J111
 Luk, K. K., 11B20
 Lukacs, K. D., 5J44
 Lukas, J., 5J57
 Lukasova-Filkova, L., 4H26
 Lukaszewski, Z., 5B65, 5B149
 Luke, B. G., 12F40
 Lukey, B. J., 7D68
 Luknitskii, V. A., 8B46
 Lukovskaya, N. M., 3H35, 4B179
 Lukszo-Bienkowska, A., 5B136
 Luk'yanchikov, M. S., 10D218
 Luk'vanenko, N. G., 3B9, 9J126, 12D168
 Luk'yanenko, T. A., 7B41
 Lulova, N. I., 8C56
 Lum, K. R., 3H39, 7H47, 7J82, 11D28
 Lumsden, B. G., 2H37
 Luna, A., 1D203
 Luna, M., 4D301
 Lund, U., 5J32, 6H102
 Lundback, H., 7C20
 Lundberg, E., 5B232, 6J133
 Lundberg, H., 5C96
 Lundberg, P. A., 11D178
 Lundberg, P.-A., 4D229, 8D181
 Lundblom, O., 6H91
 Lundell, J., 7E6
 Lundgren, E., 9D111
 Lundstrom, K., 6J187
 Lundstrom, R. C., 4F35
 Lundstrom, U., 7H52
 Lunte, C. E., 4D289, 7D232
 Luo, D., 9H13
 Luo, F., 9H58
 Luo, G., 5D159, 5D160
 Luo, Q., 4B81, 6B80, 7D26, 9B67
 Luo, R., 9J40
 Luo, S.-C., 7D10
 Luo, S.-K., 8B43
 Luo, Y., 6B181
 Luo, Z., 5E51, 8B90
 Luong, T. V., 8H73
 Luque de Castro, M. D., 3J8, 5B74, 10B30, 10J12
 Lurie, I. S., 2E5, 10E22, 12E65
 Lurse, A., 4J104
 Lushchik, Ya. F., 11J124
 Lusseau, D., 7D76
 Lussier, A., 3D262
 Lussier, F. E., 9C91
 Lustinec, J., 4D151
 Luteyn, J. C., 6D146
 Luthe, D. S., 7J7
 Luthe, H., 5D141
 Lutman, F., 4F66
 Lutseva, A. I., 9D39
 Lutz, D., 5D88, 9D85
 Lutz, H.-P., 5J111
 Lutz, P. L., 11D162
 Luu-Duc, C., 2E54
 Luuk, P., 11B166
 Lux, H., 7H8
 Luzhnova, M. A., 7B47
 Luzzi, L., 12D148
 Luzzio, J. P., 6D259
 Luzzana, M., 12D148
 L'vov, B. V., 9J85, 9J86
 Lwin, T., 8A24
 Ly, B., 8D86
 Lyamina, O. I., 4B56
 Lyapunova, N. I., 9D177
 Lyaufer, M. S., 11C27
 Lyle, S. J., 5B102, 6B86
 Lynch, B. F., 12B178
 Lynch, C., 1D94
 Lynch, T. P., 10B79
 Lynch, V. deP., 5D64
 Lynchak, K. A., 10B98
 Lyngby, J. E., 5D24
 Lynn, R., 6J172
 Lynn, S. C., jun., 12D134
 Lyon, J. M., 6D79
 Lyon, P. A., 9C69
 Lyons, D. J., 9G7, 10D43
 Lyons, E. A., 11J59
 Lysenko, A. I., 10B14
 Lysenkova, A. V., 10D247
 Lyter, A. H., III, 8C98
 Lytkina, N. N., 5C108
 Lyubimova, L. N., 4B194
 Lyustgarten, E. I., 2D143
 Lyuta, M. L., 5E40
 Ma, C., 6B117
 Ma, G., 2B29
 Ma, T., 5B103
 Ma, X., 12B148
 Ma, Y., 6G10, 9J100, 12B145, 12C3
 Ma, Z., 9B30
 Maansson, M., 4J176
 Maansson, P., 7C86
 Maarse, H., 11F29
 Maas, A. H. J., 6D33
 Maas, J. W., 8D148
 Maasfeld, W., 8H89
 Maassen, J., 10J97
 Maassen, R., 5A23
 Mabon, F., 7F78
 Mabon, J., 6D306
 Macak, J., 10C52
 Macala, L. J., 5D130
 McAleese, D. L., 12J106, 12J107
 McAllister, C. B., 12D76
 McAllister, T., 5J62
 McArthur, B., 7D94
 Macasek, F., 3J41
 McAughy, J. J., 8D22
 Macaulay, P. A., 6D207
 McAuley, F., 5D26
 McBee, G. G., 4D147
 McBurney, L. J., 3D30, 10D66
 Macea, C., 5J167
 McCaffrey, J. T., 4J133, 6J134
 McCain, J. D., 8J1
 McCall, J. T., 11D32
 McCall, S. L., 5E31
 McCallum, J. J., 4J162
 McCann, W. P., 1D192
 McCapra, F., 2D205
 MacCar, M. E., 8D109
 Maccario, J., 1A7
 McCarthy, D. J., 8C60
 McCarthy, J. F., 6B177
 McCarthy, J. P., 3B68
 McCarthy, P. T., 10D246
 McCarthy, R. C., 4D333
 McCartney, D. E., 12H79
 McCarty, K. S., sen., 7D195
 McCauley, F. A., 11D132
 Macchia, T., 5D27
 McClellan, A. C., 12D75
 McClenen, W. H., 11C52
 McCleny, W. A., 3H9
 McClintock, R., 3D192
 McClintock, S. A., 12J42
 McCloskey, J. A., 3D235, 10D235
 McCluer, R. H., 6D176, 6D177, 10D133
 McClung, H. J., 6D131, 6D132
 McClure, G. L., 4J72
 McClure, J. E., 8D182
 McCole, S. C., 8D128
 McComb, R. B., 8D241
 McConathy, W. J., 12D197
 McCool, D. K., 11G29
 McCormack, J. E., 11H5
 McCormick, G., 5B276
 McCormick, K., 4D313
 McCormick, M. J., 9H74
 McCormick, S., 7H72
 McCoy, F. E., 7D38
 McCoy, J. W., 9E3
 McCoy, L. F., 5D92
 McCoy, S., 1D16
 MacCrehan, W. A., 12J26
 McCue, J. D., 11D121
 McCue, M., 5J33
 McCurry, K. R., 11D255
 McDaniel, F. D., 7J77
 MacDermot, J., 12D125
 McDermott, J. R., 11D183

- MacDonald, A. C., 8D143
 MacDonald, B. J., 5D147
 McDonald, C. E., 2G4
 MacDonald, D. J., 1D189
 Macdonald, I. A., 3D123, 5D172, 8D143
 MacDonald, J. C., 10D183
 McDonald, K. L., 3H15
 Macdonald, L. A., 1D61
 MacDonald, P. C., 10D139
 MacDonald, S. A., 7C15
 McDonough, G. M., 4D145
 McDonough, L. M., 11G29
 McDougall, C. S., 3H21
 McDougall, I. R., 8D204
 McDowall, M. A., 8J33, 10J39
 McDowall, R. D., 2D98, 8D79
 McDowell, J. H., 3D218
 McDowell, M. W., 4J98
 McDuffie, B., 6H93
 Mace, A. W., 1J17
 MacEachern, G. M., 8F18
 McErlane, B., 4D119
 McFarland, R. D., 6D274
 McFarland, E., 11D246
 Macfarlane, R. C., 5J129
 MacFie, H. J. H., 9A36
 McGahan, M., 10H16
 McGahan, M. C., 7D20
 McGaugh, J. L., 11D80
 McGee, H., 12D95
 MacGee, J., 3F33
 McGeorge, S. W., 4A22
 McGhie, T. K., 2F33
 McGillivray, A. I., 4D172
 McGinnis, G. D., 6C9
 McGinnis, P. M., 8D146
 McGinty, J. F., 11D185
 McGovern, E. P., 3D76
 McGowan, M. W., 2D147, 12D133
 McGown, L. B., 10D202
 McGregor, D. I., 2G6
 McGregor, J. F., 3J32
 MacGregor, T. R., 10D108
 McGuffin, V. L., 2J22
 McGuire, J. M., 4J31
 McHale, S., 3J67
 Machata, G., 3J57
 Mchedlidze, T. R., 8J112, 9J110
 Macholan, L., 10J144, 11D122
 Macholz, R., 11C15
 Machovicova, F., 10E36
 Machtinger, M., 9B137
 McHugh, J. B., 10H47
 Machut, M., 6E22
 Macik-Baranska, G., 5B241, 10B134, 10H88
 MacIntosh, A. I., 2F14
 McIntosh, S. J., 5D95
 McIntyre, A. E., 5H74, 6H103, 6H104, 7H76
 McIntyre, M., 7D158
 McIver, R. T., jun., 6A19
 Mack, R. F., 11J140
 McKay, G., 6D91, 6D97, 9D66
 Mackay, G. I., 2H14
 MacKeen, J. E., 2D24
 McKenna, R. M., 5D142
 McKenney, D. J., 1H27
 MacKenzie, A. B., 11B154
 MacKenzie, S. L., 1F1
 Mackerer, C. R., 7G27
 MacKichan, J. J., 12D72
 Mackie, A. J., 8B1
 McKinney, J. D., 10D113, 10F7, 11C80
 McKneally, S. S., 8A9
 McKnight, R. P., 10D169
 Mackonka, C., 1D42
 MacKoul, D., 12J11
 McKown, H. S., 2J97, 12B72
 MacLachlan, J., 5D142
 McLaren, J. W., 6H62
 MacLaren, N. K., 1D16
 McLaughlin, I. G., 2D70
 McLaughlin, J. L., 3E7
 McLaughlin, J. P., 10H17
 McLaughlin, L. W., 5D222
 McLaughlin, R. D., 2J71, 7J78, 12H8
 McLean, A. E. M., 2D114
 MacLean, J., 10D199
 McLean, L. A., 10F39
 McLeod, A., 2D91, 10D180
 MacLeod, C., 5D72
 McLeod, C. W., 10D20
 MacLeod, G., 9F23
 MacLeod, S. M., 7D52, 7D53
 McLeod, W. R., 2D169
 McLester, J., 6D243
 McMahon, N. M., 6H5
 McMahon, P. M., 11D162
 MacMahon, W., 3D119, 10D147
 McManigill, D., 1J29, 11J20
 McMillan, M., 5D143
 MacMillan, W. D., 5C32, 9C68
 McMillin, C. R., 7H71
 McMorland, G. H., 4D119
 McMorris, I. W. N., 5J126
 McMurray, C. H., 10D125
 McMurray, W. J., 6J81, 12J63
 McMurrrough, I., 3F27, 12F34
 McMurry, P. H., 1H4
 McMurtrey, K. D., 8H83, 11H70
 McMurtry, J. P., 3D169
 McNabb, G. J., 8B57
 McNair, H. M., 6C39, 6J28, 6J62, 6J77, 11J22
 MacNeil, M. L., 8A9
 McNeill, I. C., 5C103
 McNeerney, R., 6D143, 7G5
 McNeerney, R. T., 2D27, 4D40
 McNicol, B. D., 2J119
 McNulty, J. S., 7C59
 McNutt, P., 12D233
 Macphee, W. S. G., 6B111
 McPherson, B. P., 3C56
 MacPherson, H. B., 1B82, 5B173
 McQuay, H. J., 10D54
 McQuillan, J., 5D13
 McRae, B. J., 12D243
 Macrae, R., 10F4, 10F55, 10F69
 Mactaggart, J. W., 5C88
 McVey, J. T., 11J121
 McVittie, J. D., 8J9
 McVoy, J. S., 8D245
 McWeeny, D. J., 6F10, 10F3
 McWha, J. A., 3G14
 Madacs, J. P., 10G7
 Madajova, V., 10G20
 Maddams, W. F., 3A16
 Madden, B. G., 3J51
 Madden, J. A., 9J122
 Madden, N. W., 8J2
 Madden, S. J., 10J16, 10J17
 Madec, C., 5H69
 Madej, A., 10A7
 Mader, K., 11J81
 Madiba, C. C. P., 12J141
 Madiedo, G., 7D201
 Madison, B. L., 8F63
 Madraswala, K. H., 5B113, 6B69, 12J96
 Madsen, P. P., 2H38
 Madurga, G., 12B135
 Madyastha, K. M., 1D193
 Madyastha, P., 1D193
 Maeda, H., 4E57
 Maeda, K., 6D152
 Maeda, M., 6D194, 11D1
 Maeda, T., 6J184
 Maeda, Y., 11H36
 Maehara, M., 12H71
 Maehly, A. C., 12C75
 Maeiwa, M., 6D157
 Maekawa, K., 12D153
 Maekawa, Y., 11C47
 Maekoya, C., 10H63
 Maenhaut, W., 7D17
 Maenpaa, P. H., 2D225
 Maerki, W., 9D275
 Maerz, W., 1D177, 6D266
 Maes, R. A. A., 6D85, 12D105
 Maessen, F. J. M. J., 11D15, 12D30
 Maestro Duran, R., 5F58
 Mafoti, R., 10H59
 Magalhaes, J. F., 9E37
 Magee, R. J., 2D43, 5C44, 8C29, 9H74, 10C84
 Magera, V. G., 10J120
 Magerl, H., 10D116
 Maggi, L., 2H43, 10H53
 Maggiali, C. A., 8G12
 Magidman, P., 10F56
 Magiera, V. G., 5J141
 Magistretti, M. J., 6D258
 Magnusson, B., 5H43
 Magrassi, M. L., 11D125
 Magri, A. L., 1B100
 Maguire, G. A., 4D150, 8D106
 Maguire, K. P., 7D71, 9D71
 Maguire, R. J., 3C35
 Magyar, B., 1B107, 11J87
 Mahadevappa, D. S., 4B100, 4C31
 Mahajan, N. K., 8D37
 Mahajan, P. M., 10F70
 Mahan, A., 4B84
 Mahanti, H. S., 1A6, 1B46, 2D10
 Mahapatra, B., 6B154
 Mahato, S. B., 9D135
 Mahedero, M. C., 1B32, 3G21, 8B108
 Maher, J. C., 1F7
 Maher, W. A., 3D23, 3D24, 3D26, 6C16
 Mahfood, J. J., 4H82
 Mahlberg, P. G., 9C90, 9D151
 Mahon, J. P., 2C51, 8C63
 Mahoney, J. F., 10J116
 Mahrous, M. S., 3E25, 4E26, 11E3, 11E26, 12E25
 Mahuzier, G., 1D53, 3D33, 6D162, 6D174, 8E88
 Mai, H., 7B154
 Maiboroda, I. K., 3B76, 8B120
 Maickel, R. P., 4E7
 Maidak, B. L., 6J54, 10J61
 Maidanik, V. F., 9B122
 Maidment, N., 5D172
 Maier, G., 5F48
 Maier, H. G., 10F57
 Maier, K., 5D91
 Maier, V., 4D211
 Maijgren, B., 5C79
 Mailer, R. J., 2D46
 Mailhot, S., 2D59, 6D124
 Mailliavin, A., 12D194
 Mainga, A., 9G24
 Mainka, E., 4J155
 Maiorov, V. G., 5B183, 12B93
 Mairanovskii, V. G., 11E41
 Mairuhu, W. M., 5D158, 9D161
 Maiya, T., 1C24
 Majcherzyk, C., 2D115, 8E92
 Majed, T. A., 10H10
 Majerus, P., 9F10
 Majewski, T., 2B10
 Majid, A., 5C76
 Majkic-Singh, N., 4D15, 6D290
 Major, S., 5B6
 Majumdar, S. K., 1B143, 1B145, 5B245
 Majumder, S. K., 7F71
 Mak, C. K., 12E22
 Makapugay, H. C., 9E9
 Makarainen, V., 9B144
 Makarchuk, T. L., 5B97
 Makarenko, V. G., 8J76
 Makarov, I. V., 4B14, 7B49
 Makarova, L. G., 2E21
 Makarova, L. M., 11C9
 Makarova, R. F., 11B8
 Makarova, T. P., 4B92, 5B119
 Makarov-Zemlyanskii, Ya. Ya., 6B127
 Makawiti, D. W., 4D188
 Makela, E., 6H97
 Makharadze, G. A., 7H27
 Makharadze, R. V., 9D86
 Makhubalo, J., 9G24
 Maki, Y., 6H14
 Makin, H. L. J., 4D292
 Makinen, P., 10E23
 Makino, K., 8J23
 Makino, T., 1D20
 Makino, Y., 9B34
 Makinodan, Y., 2D202
 Makita, M., 11D176
 Makjanic, J., 7B144, 10H45
 Makkar, H. P. S., 11D193
 Makovkina, T. V., 10B112
 Makowski, E. R., 9D183
 Maksimova, E. V., 8B3
 Maksimova, Z. F., 11C34
 Maksimovic, Z., 5B122
 Maksimovich, N. P., 12H89
 Maksoud, S. A., 9D166
 Makthaz, E. D., 9E21
 Makuch, B., 5J21
 Malaiyandi, M., 6H56
 Malakova, C., 7A9
 Malan, A., 8E92
 Malanoski, A. J., 2F15
 Malarczyk, E., 10D128
 Malati, M. A., 4J156
 Malavasi, W., 6C14
 Malavaille, C., 3D83
 Malczyk, J. M., 7H43
 Maldener, G., 5J22
 Malevich, V. I., 8C56
 Malgras, A., 5D181, 11D171
 Malhotra, S. R., 4B45, 10B13
 Malicek, O., 3B105
 Malik, A., 1J51
 Malik, W. U., 3J107
 Malikin, G., 11D94
 Malikov, D. A., 10B77
 Malikowska, H., 2C53, 5C25, 5C112, 5E27
 Malinka, E. V., 9B129
 Malinov, Ya. I., 7C56
 Malinowska, I., 7J51
 Malinowski, E. R., 5J33
 Malissa, H., 5J48, 6J109, 9G18, 9G22
 Malkar, V. B., 1E25, 2E19, 11E19, 11E27
 Malkina, I. G., 6B184
 Malkov, E. M., 11J139
 Mallapurkar, V. S., 5B113, 6B69, 12J96
 Mallet, A. I., 11D126
 Mallet, V. N., 6H89
 Mallevialle, J., 5H82, 10H71
 Mali, V., 6J20
 Malika, T., 5F56
 Malmqvist, K. G., 10H8
 Malmstadt, H. V., 8G7
 Malofeeva, G. I., 4B79, 11B6
 Malovik, V., 2J113
 Malthé-Soerensen, D., 6C35
 Mal'tsev, G. I., 12B52
 Maltsev, V., 4C93
 Mal'tseva, G. S., 1B21
 Maly, J., 6H95
 Malygina, L. S., 1B164
 Malyshv, A. I., 7C93
 Malyshv, N. A., 4B92
 Malyshva, A. G., 8H19
 Malyshva, A. O., 8B106
 Malyugin, M. S., 7B47
 Malyukov, B. A., 11J75
 Malyutina, T. M., 1B48, 11B8
 Mamantov, G., 3J64, 5C77, 12C40
 Mamedov, M. M., 12B41
 Mamedova, F. S., 6B116
 Mamedova, Yu. G., 7B24
 Mamed'yarov, M. A., 12B110
 Mamikonyan, S. V., 12H44
 Mamina, M. U., 3B9
 Mamolo, M. G., 11D72
 Mamyurin, B. A., 1B5
 Man, R. Y. K., 10D138
 Manabe, O., 5C39
 Manabe, O., 7C88
 Manabe, T., 4J49, 8D191
 Manaeava, A. I., 4H46
 Manahan, D. T., 3H62

- Manahan, S. E., 1J56
 Manakov, M. N., 4C30
 Manakova, L. I., 3J103
 Manca, M., 12D208
 Mancuso, R., 6F38
 Mandal, S. K., 9J41
 Mandava, N. B., 9G15
 Mandenius, C. F., 7J132, 9F47
 Mandl, I., 9D175
 Mandrichenko, B. E., 9H17
 Mandy, F. F., 7D199
 Mandzhgalidze, O., 9B99
 Manella, B., 5D156
 Manem, J., 5H82
 Manes, M., 8H84
 Maness, N. O., 4D147
 Manes Vinuesa, J., 5D49
 Maney, F., 12D213
 Manganaro, F., 9F54
 Mangani, F., 2H60, 4H34, 6H22, 7H19, 12J61
 Mange, A. M., 6D162
 Mangel, W. F., 4D321
 Mangia, A., 5J58, 8G12
 Mangold, D. J., 3D76
 Mangold, H. K., 11D141
 Mangoni, P., 2D73, 5D78
 Mangrich, A. S., 6J5
 Mangum, B. W., 1J2
 Mani, R. S., 6D224
 Manita, H., 4D187
 Mankiwala, S. C., 12E53
 Manku, M. S., 3F32
 Manley, G., 10D122
 Mannan, A., 5F43
 Mannan, C. A., 12J31
 Manning, B. E., 2J75
 Manning, D. C., 5D33, 10B17
 Manning, D. J., 8F39
 Manning, D. L., 8D112
 Manning, N. J., 9J145
 Mannino, S., 4F68
 Mannisto, P., 5D85, 11D239
 Manno, B. R., 8D48
 Manno, J. E., 8D48
 Mannschreck, A., 7J26
 Mannsfeldt, H.-G., 3D261
 Mannsperger, H., 12B29
 Manoe, S., 6H37, 9H32
 Manok, F., 1B136
 Manolescu, M., 12C52
 Manolis, A., 10D66
 Manolkar, R. B., 11B55
 Manri, T., 5B218
 Mansbach, C. M., II, 7D165
 Mansell, R. L., 6F55, 11F26
 Mansour, R., 6F57
 Mantel, M., 4D24
 Mantellini, G., 11G16
 Mantoura, R. F. C., 2H64, 9H53
 Manuel, A. J., 10F14
 Manz, A., 1J36
 Manza, I. A., 9C26
 Manzi, M., 3D273
 Mao, J., 12B75
 Mao, S. J. T., 6D264, 6D265
 Mapara, P. M., 10B68
 Mapelli, S., 3G15
 Maple, J. R., 11J100
 Mapper, D., 11J114
 Maquin, F., 9F14
 Marageter, E., 11J74
 Marai, A., 7E32
 Marai, L., 4D156, 4F75, 9F54
 Marais, J. P., 6G16
 Marano, R. S., 5C71
 Marathe, S. G., 11B55
 Marathe, W. S., 7B122
 Marceau, F., 3D262
 Marcelle, G. B., 10E16
 March, J. G., 7B112, 10B107, 10B124, 11B24, 11B49, 12B37
 Marchak, T. V., 6B147
 Marchand, B., 3D101
 Marchandise, H., 6A2
 Marchesini, B., 5D82
 Marcheva, E. V., 11B6
 Marchevsky, E., 10B43
 Marchidan, S., 4B123
 Marchialis, A., 7B77
 Marcoullis, G., 2D226
 Marcovina, S., 8D209
 Marcucci, F., 9D160
 Marcus, F. I., 7D47
 Marcus, R. K., 12J127
 Marcuso, T. L. M., 5A29
 Marcenko, Z., 2B83, 4B189, 5B261, 5B265, 7B92, 8B35
 Mardaleishvili, M. P., 7D133
 Mardens, Y., 9D116
 Mardh, P.-A., 11D259B
 Marecek, J., 4H64
 Marecek, V., 2B25
 Marek, C. J., 5G3
 Marek, M., 4F24, 12D224
 Marenkov, O. S., 8J76
 Mares, E., 7F92
 Mares, P., 2D144
 Marescau, B. A., 12D164
 Mareschal, J. C., 1D168
 Marfin, J., 8D248
 Margailan, A., 3H44
 Margel, S., 9D25
 Margerum, D. W., 9J106
 Mari, C. M., 1J105
 Mari, F., 8D99
 Mariani, C., 8F67
 Marjanovic, P., 7B144, 10H45, 11B44
 Marin, A., 4D291
 Marin, M., 6D180
 Marine-Font, A., 8F45
 Marinenko, G., 5B115
 Marinenko, J. W., 6B175
 Marinescu, D. M., 3H6, 5B67, 12J91
 Marini, D., 11E47
 Marinich, L. I., 9C61
 Marinkovic-Ilsen, A., 1D110
 Marino, E. L., 2D75, 4D104
 Marino, G., 5D180
 Marinov, M., 12D4, 12D5
 Marinovich, M., 5F7
 Maris, M. A., 4J137
 Marjanovic, N. J., 8B94
 Mark, E., 7B32
 Mark, H. B., jun., 8A28, 10J134
 Markakis, J., 6J168, 6J169, 6J172
 Marker, A. F. H., 10D219
 Markert, B. E., 3H54
 Markgraf, H., 11E22
 Markides, K., 3J59, 4J70, 6J57, 9J58, 12J64
 Markies, P. R., 12B103
 Markl, P., 6J31
 Marko, V., 2D2, 11D89
 Markosyan, D. L., 4C39
 Markov, B. A., 3C24
 Markov, V. P., 5B229
 Markov, V. V., 7B95
 Markova, T. I., 11J75
 Markova, V. A., 11C16
 Markovec, L. M., 10C84
 Markovic, N. S., 4D297
 Markovic, O. T., 4D297
 Markowicz, A., 4J91
 Markowitz, H., 4D333
 Marks, G. S., 5D109
 Marks, H., 2D102
 Marks, V., 3D46, 6D56, 10D58, 12D60
 Markus, G. A., 9C61
 Markuszewski, R., 5C78
 Marleau, S., 10D60
 Marlier, J. W., 11C69
 Marlett, J. A., 6F4
 Marmer, W. N., 1D104
 Mariniemi, J., 4D264
 Marnot, D., 1D206
 Marolt-Gomiscek, M., 9D19, 9D20, 10D16
 Maronde, R. F., 10D155
 Marone, C. B., 10B43, 11A14, 12B166
 Maroni, M., 6D270
 Marov, I. N., 3B55
 Marple, V. A., 1J5, 10A3B, 11H5
 Marquardt, R. R., 10D242
 Marquetant, R., 7D222
 Marquis, F. G., 7D128
 Marr, H., 5D257
 Marrosu, G., 2H34, 3F25
 Marsden, C. A., 5D172
 Marsh, K. C., 1D68, 12E59
 Marsh, K. M., 10H68, 10H69
 Marsh, M. K., 9C62
 Marsh, P. G., 11D144
 Marshall, A. H., 8D112
 Marshall, J., 1D31, 2D17, 2J74, 6J139, 9B10, 10J90
 Marshall, M., 6C58
 Marshall, R. C., 4D256
 Marshall, R. W., 6D77
 Marshall, T., 3D225, 9D202, 10D184
 Marshall, W. D., 6H88
 Marsili, R. T., 8F68
 Marsoner, H., 9B111
 Mart, L., 12H53
 Martell, C. J., 6B92
 Martelli, G. P., 5D110
 Martens, D. A., 5G12
 Martens, M., 1D5
 Marth, J., 10C79
 Marti, M., 6D118
 Martijn, A., 4G34
 Martin, B., 11J84
 Martin, C. R., 7D120
 Martin, D. A., 6J35
 Martin, F., 9D249
 Martin, G., 3H63
 Martin, G. E., 7F91
 Martin, G. J., 7F78
 Martin, G. W., 6J27
 Martin, H. L., 4D293
 Martin, J. C., 12J104
 Martin, J. J., 3C23, 9C93
 Martin, J.-P., 4D318, 12J132
 Martin, K., 2D69
 Martin, L. E., 5D89
 Martin, M., 7D99, 8D40, 12J29, 12J32
 Martin, M. L., 7F78
 Martin, N. J., 7D193
 Martin, P., 10F64
 Martin, R., 6J122
 Martin, R. A., jun., 2F7, 7F32, 7F58, 11F22
 Martin, R. E., 4F32
 Martin, R. J., 7D157, 12D146
 Martin, T. C., 1D118
 Martin, V. I., 3D67
 Martin, W., 8D228
 Martinchev, G. A., 1H9
 Martinelli, C. A., 1H6
 Martinelli, E. M., 6D258, 6E19
 Martinez, D., 7D72
 Martinez, E., 1D132, 8D154, 11D156, 11D165
 Martinez, E. E., 7G22
 Martinez, J. L., jun., 11D80
 Martinez, M. P., 3B99
 Martinez Calatayud, J., 5B221, 5B222, 6B146, 6E56
 Martinez-Castro, I., 8J60
 Martinez de la Barrera, M. R., 2B75
 Martinez de la Gandara, V., 8J60
 Martinez-Izquierdo, M. E., 10B170
 Martinez Lozano, C., 3B21, 4B13
 Martinez Para, M. del C., 7F45, 7F46, 12F30
 Martinez Rincon, M. C., 12F27
 Martini, I. A., 7D118
 Martini, M. C., 5C90
 Martin Mateos, E. J., 5B176, 12B168
 Martin-Rubi, J. A., 5B283
 Martins, J. L. S., 9E37
 Martins, M. L., 8F44
 Marti Pallares, M., 5D93
 Martirosov, A. E., 6B22
 Marton, A., 2J31, 6F81
 Marton, J. L., 3H79
 Martorana, G. E., 4D270, 6J21
 Martos, I., 12B141
 Marts, R. W., 7F7
 Marty, J. C., 7H62
 Martynenko, K. P., 8B69
 Martynov, Yu. T., 3B108, 8B5
 Martz, R. M., 3C65
 Marucchi, M., 6F30
 Marui, Y., 6D294
 Marumo, Y., 7D15
 Marunyak, M. N., 8H26
 Maruo, K., 5E3
 Marusic, A., 2D54
 Maruszak, J., 2B83, 5B265
 Maruta, K., 1D131
 Marutou, C., 8C13
 Maruyama, Y., 8F10
 Marvin, D. C., 2B55
 Marx, U., 5F49
 Marzillo, G., 3D89
 Masaki, H., 11D25
 Masala, A., 4D189
 Masalova, L. S., 8H32
 Mascher, H., 11D77
 Mascher, W. G., 3E16
 Mascini, M., 2D152, 5D51, 9J137
 Maseda, C., 12D66
 Maseki, M., 7J41
 Mashimo, I., 9D51
 Mashimo, K., 8C69
 Mashinskaya, S. Ya., 3B82
 Mashinskii, V. I., 9C25
 Masi, A. M., 4D197
 Maskarinec, M. P., 8D112
 Mas'ko A. N., 6A17
 Maslakova, T. S., 10C68
 Maslennikov, A. S., 8C17
 Maslennikov, V. G., 4H31
 Maslennikov, Yu. S., 12J136
 Maslennikov, M. N., 4B94
 Maslii, O. G., 8B42
 Maslov, V. A., 8C88
 Maslow, W. C., 4D254
 Maslowska, J., 2B24, 2C58, 3B17, 6B23, 7C28, 8C72, 8F52, 11J58, 12B20
 Mason, J. S., 1D58
 Mason, L., 8D149
 Mason, M., 2F4, 11F33
 Mason, P. A., 5D75, 6D98, 10D64, 10D65
 Mason, P. R., 2C48
 Mason, W. D., 1D58, 3D48, 3D65
 Masoud, A. N., 2D112, 4E53, 6D273
 Masoud, T. A., 7F45, 7F46, 12F30
 Maspocho, S., 4B170, 4B184, 7B72
 Massaccesi, M., 7E16
 Massart, D. L., 2F13, 5A30, 6E4, 7A11, 7A26B, 7C84, 8E1, 8E2, 9H51
 Masse, J., 10E25
 Masse, M.-O., 2C59
 Massenet, D., 7D191
 Masser, M., 4D217
 Massey, I. J., 10J116
 Massey, R. C., 6F10, 10F3
 Masseyeff, R., 8D86
 Masson, P., 10D240
 Masson, P. L., 1D168, 12D186
 Massoud, M., 4D196
 Massucchetti, C., 8D133
 Masters, R. G., 2D55, 3D35
 Masterton, R. G., 5D55
 Mastrogiacomio, A. R., 4H34, 7H19
 Mastrogiacomio, W., 9D82
 Masuda, S., 8D70
 Masuda, Y., 1B1, 6C18, 11B26
 Masui, A., 1C39
 Masui, T., 11E54
 Masuiki, M., 1D208

- Masujima, T., 3D185, 5D42, 9C40
 Masumoto, K., 5D29, 6J164
 Masumura, S., 4H62, 6J165
 Matakova, R. N., 3H72, 5H89
 Matasker, J., 3H78
 Mateescu, M. A., 1D219
 Matern, H., 4D309
 Matern, S., 4D309
 Materova, E. A., 11J125, 11J132
 Mather, I. H., 6D291
 Matherny, M., 10J94, 11J90
 Mathers, H., 9B126
 Mathers, J. C., 6D40
 Matheson, T. W., 11C44
 Mathew, T. V., 4G18
 Mathews, E. L., 2D141
 Mathews, S. E., 7D45
 Mathewson, P. R., 6G5
 Mathews-Roth, M. M., 10D217
 Mathies, J. C., 10D220
 Mathieu, H. J., 5J65, 6B6
 Mathieu, J., 4C48, 10D37
 Mathieu, M., 12D238
 Mathulla, T., 5F42, 11C59
 Mathur, J. N., 1B56, 1B63, 5B128
 Mathur, M., 3D249, 10D250
 Mathur, N. K., 10B50
 Mathur, P., 10B34
 Mathur, P. K., 12E41
 Mathur, R. P., 10B34
 Mathur, S. N., 3D249, 10D250
 Mathys, G. I., 8C37
 Mathys, H., 11G21
 Matisova, E., 10G21
 Mattisek, R., 2C56, 4C69, 5C92
 Matlin, S. A., 7E15
 Matlis, R., 2D63
 Matolcsy, G., 5A36, 10E41
 Maton, P. N., 8D180
 Matousek, J. P., 9J88
 Matousova, O., 4D120
 Matraszek-Skonieczna, G., 8F43
 Matsubara, G. S., 4B71
 Matson, C. M., 4D188
 Matson, W. R., 7F62, 7F63
 Matsuba, M., 7H51
 Matsubara, I., 4D57
 Matsubara, K., 3D222, 6D272, 12D66
 Matsubara, N., 2J84
 Matsubara, Y., 9D248
 Matsuda, H., 4B159, 8J129
 Matsuda, K., 1D208
 Matsuda, M., 2H58, 6D318, 6J181
 Matsuda, R., 4E33
 Matsuda, T., 8B22, 11B97, 11H36
 Matsudaira, T., 8D119
 Matsueda, T., 1H29
 Matsuhira, B., 3D96
 Matsuhisa, K., 9B115, 10H55
 Matsui, F. F., 5E35, 3E38
 Matsui, H., 8D190, 12D228
 Matsui, M., 8B52
 Matsui, S., 6J113, 7F85, 9B113
 Matsui, Y., 5D41
 Matsuki, Y., 5D62, 6E50, 8F24
 Matsumiya, H., 7D121
 Matsumoto, H., 2D92, 7G35, 7H59
 Matsumoto, K., 4B120, 4D59, 4D169, 4F53, 5B40, 9D37, 9J34, 12B109
 Matsumoto, M., 3F21, 8F37, 8H17
 Matsumoto, T., 4B88, 5D41, 11D238
 Matsumoto, U., 4D11, 9D118, 10D126
 Matsumoto, Y., 6B46
 Matsumura, S., 8B52
 Matsunaga, A., 1C29
 Matsunaga, S., 5D206
 Matsunaga, T., 8D201, 9J134
 Matsuno, K., 12D35
 Matsuno, T., 7H61
 Matsuo, C., 7D197
 Matsuo, H., 1B88, 5D42
 Matsuo, N., 6D261
 Matsuo, O., 7D197
 Matsuo, S., 4B35
 Matsuo, T., 7D197, 8B81
 Matsuoaka, H., 1F13, 5J181
 Matsuoka, N., 10H19
 Matsuoka, Y., 9D54
 Matsusaki, K., 9B58
 Matsushima, T., 7D202
 Matsushima, Y., 3D257
 Matsushita, H., 4B29, 9H33
 Matsushita, S., 6J48, 12B24
 Matsushita, Y., 8D43
 Matsura, F., 8D147
 Matsuura, H., 6E50
 Matsuura, K., 5D42
 Matsuura, S., 12D223
 Matsuzawa, T., 10D115
 Matsuzawa, Y., 12D240
 Matta, K. L., 5D240
 Matta, M., 6F77
 Mattenheimer, H., 6D303
 Matern, D., 4J151
 Matthes, K. J., 10D257
 Matthes, S. A., 8B1
 Matthew, J., 4D68
 Matthew, J. A., 6D143
 Matthews, D. E., 7F1
 Matthews, K. M., 1H30
 Matthews, L., 6D179
 Matthews, T. G., 2H21, 12H37
 Matthews, W. L. N., 9B150
 Mattiasson, B., 4D228, 9F47
 Mattick, L. R., 2F29, 4F55, 4F58
 Mattiuz, U., 1B60
 Mattocks, A. M., 7E27
 Mattogno, G., 5B199
 Mattox, V. R., 9D11
 Mattson, R. H., 1D49
 Mattsson, S., 10D32
 Matula, T. I., 6G26
 Matusewicz, H., 5J1
 Matusik, J. E., 1D64
 Matuszewski, W., 2H48
 Matveev, O. I., 3B26, 4J134, 6J146
 Matveeva, E. Ya., 4D225
 Matyashev, V. G., 4B151, 9B143
 Matynia, T., 10J70
 Matsysik, G., 8E52, 10H83
 Matsyska, M., 8E52
 Matzaberidze, T., 9B142
 Matzke, G. R., 10D85
 Matzke, P., 11D61
 Maucher, H., 10J97
 Mauchien, P., 5B110
 Maugh, T. H., II, 5J18
 Maughan, R. J., 3D97
 Maurel, B., 12B104, 12J145
 Maurer, H., 9D67, 11D39, 11D73
 Maurer, J. J., 5C115
 Mauri, C., 11G7, 11G8
 Maurich, V., 11D72, 12E10
 Maute, A., 6J122
 Mavlyanova, M. B., 11E12
 Mawhinney, T. P., 9G13
 Maxwell, J. R., 1C5
 Maxwell, K. W., 3D78
 Maxwell, R. J., 1D104
 May, B., 7D84
 May, B. D., 12H83
 May, K., 12D31
 May, P. M., 5J163
 May, S., 10B61
 May, T. W., 12D108
 May, W. E., 5H96, 7C43, 7H23, 10H36, 12J26
 Mayanna, S. M., 4E25
 Maybury, R. B., 4G31
 Maycock, P. F., 1D127
 Maydell-Ondrusz, E. A., 12B82
 Mayer, H., 4C38
 Mayer, M., 12D199
 Mayersohn, M., 10D88, 10D121
 Mayne, P. D., 9D270
 Mayo, M., 6D223
 Mayumi, M., 2D207
 Mazan, E. G., 12J1
 Mazena, A., 4B113, 5B148
 Mazer, T., 5C54
 Maznicki, E., 12D198
 Mazrimas, J. A., 11D200
 Mazuka, T., 3H73
 Mazur, H., 2C72, 5F11
 Mazur, I. A., 9H17
 Mazur, L. P., 11J16, 3J114
 Mazur, P. B., 5G3
 Mazurak, O. V., 1B21
 Mazza, B., 4H39, 5F44
 Mazza, G., 2F34
 Mazza, J. C., 4J8
 Mazzeo, P., 12C6
 Mazzinghi, P., 7J89
 Mazzo, D. J., 5C52, 5C62
 Mazzola, E. P., 8F65
 Mazzolini, A. P., 12D15
 Mazzucotelli, A., 5H67, 9B80, 11B76, 12D46
 Meade, C. J., 8D123
 Meadows, G. W., 1H20
 Meagher, D., 10H22
 Means, J. C., 12D107
 Meatherall, R. C., 3D58, 6D207
 Mechkov, D., 5H93
 Mechkovskii, S. A., 11J127
 Meckel, L., 10C76
 Medicus, G., 5B281
 Medina, C., 6D292
 Medina Escriche, J., 5B75, 5B177, 6C63, 7C77, 10C64
 Medja, A., 9E4
 Medvecky, R., 9E48
 Medved, T. Ya., 5B127
 Medvedev, M. I., 11H74
 Medwick, T., 6E36
 Medyantseva, E. P., 5J179, 9B141
 Meehan, J. L., 6F26
 Meek, J. L., 3D160, 9D167
 Meek, K., 12D207
 Meeker, F. S., jun., 10D103
 Meeks, J. R., 7G27
 Meeks, S., jun., 1C37
 Meerburg-Van der Torren, J. E., 7D62
 Meffin, P. J., 5D105
 Megges, G., 7C104
 Megha, R., 11D201
 Meghal, S. K., 4G38
 Megroyan, R. A., 11C2
 Meguri, H., 3F11
 Meguro, H., 7F85, 9B113, 9D272
 Meguro, T., 6D307
 Mehani, S., 7E15
 Mehd, G. D., 3B18
 Mehdi, H., 7H14
 Mehlkopf, A. F., 8A21
 Mehra, M. C., 1B117
 Mehrabzadeh, A. A., 4J130
 Mehrens, H.-A., 2F26
 Mehta, A. C., 2D90, 5D77, 7D67, 12D54
 Mehta, A. G., 4B39, 4B41, 10B29
 Mehta, B., 11D250
 Mehta, G. K., 7D13
 Mehta, P. D., 12D184
 Mehta, R., 7J77
 Mehta, R. K., 10B34
 Mehta, S. P., 12D184
 Mehta, V. P., 3B44
 Mei, D.-S., 4D38
 Mei, T.-Y. C., 10J127
 Mei, W., 9H56
 Meier, A. L., 7B78
 Meier, F., 10F67
 Meier, H.-H., 4B161
 Meier, P. C., 8J125, 10D28
 Meier, S., 12J126
 Meier, S. M., 12D142
 Meier, H., 1B14
 Meighen, E. A., 3G23
 Meiners, B. G., 1D25
 Meinhold, H., 6D222
 Meinsma, D. A., 5D65
 Meira, G. R., 6J46
 Meischak, G., 5F45
 Meisen, A., 3C45
 Meisenberg, G., 3D144
 Meisler, N. T., 11D188
 Meissner, D., 8J85
 Meites, L., 3A19, 3A20, 5A43
 Meixner, F., 12H24
 Mekhedov, B. N., 11B30
 Meks, P., 5C28
 Meladze, V. E., 8C82
 Melamed, D. B., 8F1
 Melandri, C., 10J150
 Melan'ina, A. A., 8H88
 Mel'chakova, N. V., 6B106
 Melcher, M., 4D56, 5B248, 12B111, 12B112, 12B123
 Melcher, R. G., 1H14
 Melda, K., 3J62
 Melekchina, L. V., 6B132
 Melendez, V., 6D120
 Meleat'ev, V. I., 4B93
 Melethil, S., 1D62
 Melhuish, J. H., jun., 8D117
 Melichar, Z., 8J81
 Melios, C. B., 10A6
 Melksham, K. J., 1G18
 Mellbin, G., 2D7
 Melnikov, E. Ya., 9B25
 Mellis, S. J., 6D148
 Mellor, L. D., 2D31
 Mel'nikova, O. V., 4J105
 Mel'nikova, V. I., 1D103
 Meloan, C. E., 6F35, 12J6
 Melograna, J. M., 6D25
 Meloni, S., 4H58, 10H53
 Melrose, J., 3D275
 Melton, R. G., 5H73
 Melton, V. E., 9D260
 Meltzer, N. M., 12D98
 Melzer, V. N., 12D75
 Menanishvili, I. P., 6B22
 Menard, C., 9D162
 Menard, H., 12C61
 Menard, H. A., 6D23
 Mendizabel, H., 1F15
 Mene, P., 3D273
 Menegus, F., 1D218
 Menendez Gutierrez, R., 4H30
 Menet, H., 9J21
 Meng, C., 5D159, 5D160
 Menge, C., 2D65
 Menon, A., 12D36
 Menon, G., 9E40
 Menon, K. S., 7B82
 Menon, M., 6D164, 10D14
 Menon, M. P., 1D201, 5D233
 Mensitieri, R., 4D28
 Mentasti, E., 2H31, 5B23, 9C17, 11B87
 Mentlein, R., 3D219
 Menyhardtova, Z., 1E38
 Menyhart, J., 12J45
 Menzel, K., 9D227
 Menzies, J. A., 10D78
 Menzies, K. T., 4H32
 Menzies, R. T., 4H8
 Meranger, J.-C., 2D24, 9H23, 9H38, 9H40
 Mercer, M., 7D187
 Meredith, M. J., 1D152
 Meredith, S. C., 9D172
 Meresov, Yu. I., 4B80
 Merisov, Yu. I., 4B80
 Merk, H., 4B3
 Merkel, B., 12H62
 Merkle, R., 6B59
 Merkulov, V. G., 12B158, 12B159
 Merkus, F. W. H. M., 6D52, 11D65
 Merle, L., 6D57, 11D79
 Merlet, C., 11J80
 Merlin, S., 3D135
 Merlini, G., 6D232
 Mermet, J. M., 11B93

- Mernke, E., 4C77
 Merouli, E., 8C30
 Merola, G. V., 3F34
 Meroni, G., 5D154
 Merrill, E. W., 3C54
 Merritt, C., 10D23
 Mertens, H., 6H57
 Mertens, P., 11G35
 Mertens, R., 6D190
 Mertova, H., 4F14
 Mes, J., 5D111
 Meshcheryakova, T. Yu., 2D36
 Mesic, V., 5D120
 Meskina, E. I., 11C72
 Mesrob, B., 3C62
 Messenger, L. J., 4D76
 Messeri, G., 4D189, 12D140
 Messerschmidt, J., 4J112
 Meszaros, S. Y., 2J40
 Metcalf, G. S., 11C52
 Metcalf, R., 2D68
 Metcalfe, C. E., 2H21
 Metcalfe, L. D., 10C62, 11F41
 Metelev, A. Yu., 3H41
 Metelitsa, V. I., 2D94, 7D77
 Metelkina, E. I., 6B102, 7C93
 Methner, F.-J., 5F49
 Metson, J. B., 8B53
 Metting, H. J., 4E35, 4E36
 Metwally, M. E.-S., 7E39
 Metz, R., 6D203
 Metz, S., 12H48
 Metzger, J., 8F8
 Metzger, M., 12H17
 Meulemans, A., 10D107
 Meuwese-Arends, M. T., 1D81, 5D125
 Meuzelaar, H. L. C., 11C52, 12C79
 Mevelle, G., 6A4
 Meyer, B. N., 3E7
 Meyer, G.-J., 5E5
 Meyer, J. C., 12D210
 Meyer, M. C., 3D70, 11D52
 Meyer, R. C., 7E33
 Meyer, R. F., 4J20
 Meyer, T. J., 5B21
 Meyer-Bertenrath, J. G., 1D214
 Meyerhoff, M. E., 5J174, 7J128
 Meylor, P. J., 10J106
 Mezey, G., 12E9
 Mezger, G., 11B40
 Mezzetti, T., 11E44
 Mgebroff, J. S., 11H1
 Mhalas, J. G., 2E43, 5E59, 10E32
 Miao, H., 9E26
 Miao, J., 2B39
 Micali, G., 8C67
 Miceli, J. N., 7D94
 Micera, G., 4C12
 Michael, A. C., 4D21
 Michael, J. L., 11G13
 Michael, R., 3D152
 Michaelis, J. R., 6C48
 Michaelis, W., 5J69, 12H12
 Michaelson, I. A., 8D146
 Michailov, M., 11E53
 Michalak, K., 1E27, 1E38
 Michalik, P. A., 5J84
 Michalke, P., 11D113
 Michalowski, T., 5B132
 Michalska, D. F., 10C18
 Miceel, B., 6D254
 Michel, R. G., 4J132, 4J133, 6J134
 Michiels, E., 4B115
 Michijima, M., 8H51
 Michnik, M. A., 9B183
 Micolli, G., 12D46
 Middlehurst, C. R., 10D163
 Middleton, H. R., 6J18, 8B10
 Midgley, D., 2B68, 10J142, 10J143, 12J151
 Midgley, J. E. M., 4D230
 Midha, K. K., 1D42, 6D91, 6D97, 9D66
 Midness, L. T., 6F31
 Midorikawa, Y., 10F17
 Midskov, C., 5D73, 7D63, 11D104
 Miedema, K., 8D216
 Miedzak, I., 2D158, 5C45
 Mielcarz, G., 8F36
 Mieth, G., 10F5
 Mifek, K., 4F8
 Migdalof, B. H., 10D103
 Miggiano, G., 4D270
 Mignot, J.-C., 4H67
 Miguel, J. A., 3G11
 Mihailovic, D., 1J80
 Mihajlovic, R. P., 3A9, 4C25
 Mihaly, G. W., 7D92
 Mihara, Y., 7B155
 Mihashi, H., 12B84
 Mikaelyan, D. A., 5B262, 7B136, 11B152, 12B165
 Mikalsen, A., 9H32
 Mikami, I., 1C7
 Mikasa, H., 3D163, 8D174, 10B97
 Mikawa, R., 1D72
 Mikaya, A. I., 6C8
 Mikes, O., 3D276
 Mikhailov, L. K., 10J79
 Mikhailov, V. V., 12J1
 Mikhailova, L. V., 9B182
 Mikhailova, M., 11B39, 12B137
 Mikhailova, O. A., 9A16
 Mikhailov, P. I., 3B90
 Mikheev, N. B., 12B68
 Mikhnenko, T. A., 12F32
 Mikhno, V. V., 3E12
 Miki, T., 4F18, 6F23, 12J54
 Miki, Y., 4C62, 4C63
 Mikityuk, L. P., 5C27
 Miksch, R. R., 2H22
 Miksche, G., 11J52
 Mikstais, U., 5D218
 Mikula, B., 10B48
 Mikura, T., 9E45
 Milana, M. R., 4F79
 Milano, G., 8D86
 Milanovich, F. P., 9H35, 11J103
 Miles, L. E. M., 4J9
 Miles, M. H., 5C116
 Miles, M. L., 11B20
 Miles, R., 2J119
 Milham, P. J., 10G28
 Milina, R., 2C71, 10C55, 10J63
 Milivojevic, D., 5E47
 Miljkovic, D. A., 10D149
 Milla, M., 3B99, 6B14
 Millaud, J., 2J71, 12H8
 Mille, G., 11C45
 Miller, A. G., 3D253
 Miller, A. J., 12F14
 Miller, A. K., 3D66
 Miller, A. M., 8D74, 10D102
 Miller, A. R., 6F32
 Miller, B., 1J114, 3J113
 Miller, C. M., 7J113, 12B74
 Miller, D. D., 12D80
 Miller, D. J., 2H71
 Miller, G. E., 7J117
 Miller, G. J., 7F39
 Miller, J. H. McB., 6E45, 12E48
 Miller, J. M., 3J10, 4A28
 Miller, J. N., 5B116, 6D7, 6D98, 6J23, 6J141, 10D70, 10J100, 12J84
 Miller, M. E., 12D51
 Miller, M. F., 11B77
 Miller, M. H., 8J90
 Miller, M. K., 5J134
 Miller, P., 4D266
 Miller, R. J., 11J55
 Miller, R. L., 1C19
 Miller, R. M., 10C86
 Miller, T., 1D135
 Miller, V., 7C21
 Miller, W. H., 8A26
 Miller-Ihli, N. J., 1D31, 5J93, 9B10, 9J94, 10D89
 Millingen, M., 9C81
 Millington, D. S., 12C16
 Millozzi, P., 1B76
 Mills, A., 7B22
 Mills, A. L., 11B104
 Mills, B. L., 2F16
 Mills, J. C., 5B18
 Mills, S. D., 11D117
 Mills, T., III, 11D258B
 Milne, D. B., 7D231
 Milner, B. A., 5J87, 6J131
 Milosavljevic, E. B., 3A4
 Miloshova, M. S., 9J133, 11J131
 Milosz, A., 8C84
 Milovanovic, G. A., 4C1
 Milward, L. J., 2G20
 Milwidsky, A., 12D199
 Milyukova, M. S., 10B77
 Mimoh, N., 3D120
 Mimura, T., 7D114
 Min, B. H., 6D95
 Min, Z., 1D64, 7F48, 7F49
 Minagawa, K., 9D54
 Minagawa, M., 5D132
 Minakuchi, H., 10D6
 Minami, H., 10F51
 Minami, S., 6J113, 8A17
 Minatogawa, Y., 12D120
 Minchev, L., 3J66
 Minck, R., 9D46
 Mindeli, M. P., 4B147
 Minderhoud, A., 6H1
 Mindin, V. Yu., 11J85
 Minenko, N. I., 6H100
 Miner, D. J., 5D57, 12D89
 Miners, J. O., 2D113
 Minguez Mosquera, M. I., 7F72
 Mink, C. J. K., 6D288
 Mink, W., 3D93
 Minka, A. F., 11E31
 Minogin, V. G., 11J101
 Minoia, C., 5H67, 11B76, 12D46
 Minski, M. J., 2D9
 Mir, J. M., 8B44
 Miraglia, M., 9F44
 Miranskii, I. A., 5B50
 Mirashi, S. V., 4G38
 Mirenskaya, I. I., 4B195, 11B168
 Miribel, L., 4E52
 Mirjolet, M., 9E41, 11D149
 Mirocha, C. J., 7D103
 Mironov, A. F., 8D213
 Miroshina, V. P., 10C8
 Miryasov, R. R., 8G13
 Mirzoyan, N. A., 7B29
 Misak, N. Z., 3B61
 Misaki, T., 5E10
 Mise, N., 4B17
 Mishchenko, V. T., 5B101, 9B46, 10B45
 Mishchenko, V. V., 11E41
 Mishchikhin, V. A., 2H29, 8H28, 9H30
 Mishenev, V. B., 4B94
 Mishima, S., 2D167
 Mishima, Y., 12D32
 Mishin, V. I., 1B55
 Mishra, A. K., 11E29
 Mishra, L. K., 10B33
 Mishra, R. K., 2B15, 2B64, 4B136, 5B178, 6B133, 10B110, 12B113
 Mishra, U. C., 5D11, 11J77
 Mis'ko, Yu. S., 8B46
 Misovets, V. G., 9B16
 Misra, A. K., 10G13
 Misra, D. B., 6B154
 Misra, S., 7C100
 Missout, G., 5J168
 Misumi, S., 5B32, 12C20
 Misztal, G., 8E30
 Mital, R. L., 10B168, 10E27
 Mitchell, A. G., 9E58
 Mitchell, D., 5H18
 Mitchell, D. G., 10D222
 Mitchell, F., 8D140
 Mitchell, F. L., 3D1, 5D143
 Mitchell, I. V., 5J137, 12A6
 Mitchell, J. C., 6J136
 Mitchell, J. P., 10J7
 Mitchell, J. W., 5B282
 Mitchell, M., 3D223
 Mitchell, M. J., 4H48
 Mitchell, P. G., 2C40
 Mitchell, P. I., 9H41
 Mitchell, P. K., 5H71, 7J47
 Mitchell, R., 8F57
 Mitchell, R. H., 10B28
 Mitchell, R. J., 9G13
 Mitchenko, F. A., 3E34
 Mitchum, R. K., 5C54, 8C42, 11D62
 Mitha, R., 11H8
 Mit'kina, L. I., 6E59
 Mitra, P. C., 4B44
 Mitsana-Papazoglou, A. B., 4B33
 Mitskevich, N. I., 7G18
 Mitskevich, N. S., 4B156
 Mitsushashi, A., 5E17
 Mitsushashi, T., 5B68, 7F52
 Mitsushashi, Y., 8F24
 Mitsui, T., 2G30, 8E10
 Mitsuzawa, S., 6H32
 Mittal, S. K., 9B139
 Mittelstaedt, H., 7B44
 Miura, N., 6J6
 Miura, S., 4J125
 Miura, Y., 10B116
 Miwa, T., 1C24, 5B157
 Miya, K., 1D163
 Miyabo, S., 1D
 Miyachi, N., 5B11
 Miyada, D., 11D64
 Miyagi, H., 7D155
 Miyagoshi, M., 8C76
 Miyahara, M., 6D237
 Miyahara, T., 7D227
 Miyahara, Y., 5J181
 Miyai, K., 4D199
 Miyakawa, M., 11D247
 Miyakawa, Y., 2D207
 Miyake, T., 4D324
 Miyake, Y., 1D159
 Miyama, T., 6J113
 Miyamoto, G., 6D130
 Miyana, S., 10F2
 Miyao, Y., 2D78
 Miyasaka, K., 8H8
 Miyasaka, M., 4H40
 Miyashita, M., 12B132
 Miyata, O., 4D199
 Miyata, T., 6D72
 Miyatake, N., 11E11
 Miyazaki, K., 9D272
 Miyaura, S., 1D72
 Miyazaki, A., 8B12, 8H47, 10B102
 Miyazaki, H., 3D108, 12D124
 Miyazaki, K., 4D80
 Miyazaki, M., 4B32, 4B181, 10B150
 Miyazaki, T., 4D213
 Miyazawa, M., 11G1
 Miyoshi, K., 3F26
 Miyoshi, T., 9B119
 Mizera, A. C., 4D197
 Mizera, J., 10C52
 Mizerosvskii, L. N., 5C108
 Mizobuchi, M., 9D68, 9F17, 11D24, 12H67
 Mizoguchi, N., 3C163
 Mizoguchi, T., 2B3, 8A22, 8H8, 12H31
 Mizoiri, S., 12H96
 Mizuike, A., 1B39, 1C24, 2H35, 2J4, 3B51, 4J14B, 4J125, 5B157, 12J101
 Mizuniwa, F., 10H63
 Mizuno, N., 1E28
 Mizuno, S., 11G23
 Mizuta, H., 1D163
 Mizutani, J., 2H35
 Mizutani, T., 8D91
 Mladek, M., 10J20
 Mlodecka, J., 5B186, 5C22
 Mo, P., 7D228
 Moats, W. A., 1F14, 6F51
 Mocak, J., 11J143

- Mocanu, A., 6G31
 Moccia, D., 2C60
 Mochalova, N. A., 3B36
 Mochida, K., 7D55
 Mochizuki, M., 7B111
 Mochizuki, N., 12C20
 Mochulov, E. N., 4J88
 Mock, T., 10D138
 Mockridge, P. B., 3D221
 Modi, M., 11D250
 Modi, V. V., 11D250
 Modolo, R., 1B38
 Mody, N. F., 10B136
 Moehlmann, T., 3H29, 5H97
 Moehle, K., 12H21
 Moehrk, W., 12D83
 Moelgaard, P., 1F6
 Moelhave, L., 8H24
 Moeller, G., 10D143
 Moens, L., 2J100, 5B146, 8J115, 10J119, 11J118
 Moerkerken, A., 11H30
 Moessner, E., 8D249
 Moffat, A. C., 5D75, 6D98, 7A16, 10D64, 10D65
 Moffatt, D. J., 6J149, 11J69
 Moffitt, R. A., 7F62, 7F63
 Mogami, A., 7J96
 Mogi, M., 11D237
 Mohabey, H., 2B15
 Mohamed, M. E., 2E34, 5E36, 6E42, 6E49, 8E68, 11E23
 Mohamed, S., 9B170
 Mohammad, A., 2A5
 Mohammed, A., 4D241
 Mohammed, M. N., 11D172
 Mohan, J., 10B39
 Mohan, K. R., 2E44
 Mohanraj, S., 8C25
 Mohl, C., 12D38
 Mohler, J., 10D107
 Mohr, F., 5B169
 Mohsen, M., 5J154
 Moin, F. B., 5C27
 Moise, C., 11C4
 Moiseenok, A. G., 10D247, 12E33
 Moiseeva, A. F., 4C40
 Mok, W. M., 8H56, 9H55
 Mokeeva, R. N., 2C70
 Mokhov, A. A., 4B55
 Mokrosz, J., 8E51
 Mokrousov, G. M., 7J136
 Mokuno, K., 12D29
 Mola, P., 4F7
 Molas, J., 7D191
 Molchanova, E. I., 7A18
 Mold, D. E., 7D195
 Molin, L., 4D79, 12D65
 Molina, M., 10A6
 Molina, P., 9B51
 Molko, D., 9D233
 Moll, M., 4H67, 10F62
 Molle, L., 5D164
 Moller, B., 7D177
 Molnar, I., 11J21
 Molnar, J., 3D241
 Molnar-Hamvas, L., 3D241
 Molnar-Perli, I., 2C21, 4C41
 Molochnikova, N. P., 4B98
 Molodtsova, V. I., 8C48
 Molotkov, B. V., 9B176
 Molyneux, P., 11J7
 Momchilova, E., 5J85
 Momose, A., 5D41
 Momose, T., 9D68
 Momoshima, N., 11B18
 Momparler, R. L., 6D122
 Monaco, S., 4D266
 Monaro, S., 3H51, 6D23, 6H41, 6H43
 Moncalvo, E., 11C57
 Moncayo, R., 4D16
 Monchalin, J. P., 4H23
 Moncur, J., 4D159
 Moncur, J. G., 6C43
 Mondy, N. I., 1F17
 Moneghini, M., 12E10
 Moneti, G., 11J112
 Mongay Fernandez, C., 4A19
 Monie, R. D., 6D119
 Monien, H., 7C27
 Monji, N., 4D250
 Monk, J. G., 4D142
 Monkhouse, P. B., 1B3, 3D14
 Monsan, P., 1D199
 Monseur, X., 4G19
 Monsurro, M. R., 6D260
 Montag, A., 6D37, 9F7, 12F13
 Montali, U., 10E14
 Montana Gonzalez, M. T., 10B8
 Montanari, S. G., 3J65
 Montas Dominguez, T., 3C48
 Montaser, A., 10J95
 Montaudo, G., 9C83
 Monte, W. C., 10F49
 Monteil, H., 9D46
 Monteith, C. S., 9H3
 Montenez, T., 9D28
 Montesano, R., 3D83
 Monti, J. C., 2F9
 Montiel, A., 5H39, 5H44, 8H1
 Monzie, D., 4H29
 Moody, G. J., 2J111, 4J166, 5J172, 5J192, 6B122, 7B84
 Moon, T. W., 6D216
 Moonen, P., 8D122
 Mooney, D. P., 4F73
 Mooney, S. A., 8C7
 Moore, A. B., jun., 11J8
 Moore, B. L., 3C55
 Moore, J. M., 8E8, 12E8
 Moore, L., 10D113
 Moore, L. J., 10J115
 Moore, M. R., 10D221
 Moore, R. A., 10D54
 Moore, R. C., 11H4
 Moorehead, W. R., 2D196
 Mooser, A. E., 11E55
 Mopper, K., 8D113
 Mora, J., 8D173
 Morabito, R., 3D22, 6D43
 Morad, A. R. M., 5E32
 Moraga A., D. A., 9D274
 Moraghan, J. T., 6G8
 Morales, A., 12E3
 Morales, V., 8D244
 Morales, W., 7C105
 Morales-Aguilera, A., 5D108
 Moran, D. M., 11D43
 Moran, M. G., 12A12
 Morantz, D. J., 4J139
 Moraru, E., 1J42
 Moravec, A., 5B123
 Morawietz, G., 1J123
 Morawska, L., 5B26
 Morawski, J., 9F30
 Morchio, G., 4F80
 Morcillo, J., 6D282
 Mordvinova, N. M., 10B145
 Moreau, A., 4E13, 7E29
 Moreau, C., 12B58
 Moreau, F., 4D323
 Morel, F. M. M., 3H53, 12H73
 Moreland, P., 5D188
 Morel du Boil, P. G., 10F25
 Morelli, B., 1B119, 1B141, 6B170, 7B135
 Moreno, A., 1B22, 6F47, 10B137, 10C27
 Moreno, M., 5J145
 Moreno Cordero, B., 5B190
 Moret, I., 11F32
 Moreton, J., 9B126
 Morf, W. E., 4D206, 5J180, 8J125, 10J132
 Morgan, B. P., 6D259
 Morgan, C., 11J141
 Morgan, D. J., 6D105, 8B127
 Morgan, D. M., 4D8
 Morgan, E. D., 1G21
 Morgan, L. R., jun., 2D110, 5D107
 Morgan, M. R. A., 6D143, 7G5, 9E60
 Morgan, S. L., 7D69
 Morgan, T. G., 7J111
 Morgen, E. A., 11B98
 Morgenlie, S., 8D108
 Morgenstern, P., 9J74
 Morgulis, T. E., 7A19
 Mori, A., 6D318, 7H24
 Mori, C., 4J158
 Mori, H., 8D196
 Mori, I., 1D128, 1E15, 1E34, 3D79, 6E51, 7E8, 9E22, 12B100, 12D161
 Mori, K., 8J37
 Mori, M., 6D152
 Mori, S., 4D324, 12J47
 Mori, T., 4D194, 8D198
 Mori, Y., 5H28, 8B22, 12D157
 Moriarty, D. J. W., 8H80
 Moriarty, K. J., 5C62
 Moriggi, M., 3J33
 Moriguchi, S., 4J69
 Morizumi, T., 5J181
 Morikawa, Y., 11J19
 Morimoto, S., 2D234
 Morimoto, Y., 5C33
 Morin, L. G., 4D312
 Morio, M., 9D73
 Morioka, T., 4H75
 Morishige, K., 5B78, 8H58, 9B41, 12B55
 Morishima, S., 9D87
 Morishita, M., 9E63
 Morisi, G., 5D27
 Morita, E., 1E28
 Morita, H., 5B68, 6B63
 Morita, I., 5D42
 Morita, K., 7H22
 Morita, M., 8D58
 Morita, T., 5B254, 7H32
 Moriya, H., 9D263
 Moro, V., 6D302
 Moroder, L., 5D192
 Moroshkina, T. M., 6B5
 Morozov, A. G., 5B50
 Morozov, B. A., 8B46
 Morozova, C. F., 9B105
 Morozova, N. P., 1B16
 Morrell, J. A., 12A9
 Morris, P., 4F4
 Morris, C., 9J3
 Morris, E. R., 2F5
 Morris, G. S., 4D296
 Morris, M. D., 5B31, 5J83, 9J52
 Morris, M. E., 2D71
 Morris, N. M., 9C75
 Morris, R. G., 7D93
 Morris, T. M., 12F33
 Morrison, A., 12J109
 Morrison, G. H., 5D12, 5G7, 6B183, 8B139, 12D20
 Morrison, J. D., 8J67
 Morrison, W. R., 4F19
 Morrow, R. W., 2B46
 Morselli, M. F., 10F23
 Morselli, P. L., 9D80
 Mort, A. J., 4D146
 Mortensen, H. B., 9D231
 Mortera, G., 5H90
 Morton, C. E., 7J56
 Morton, J., 1J18
 Morton, R. E., 10J146
 Morton, S. F. N., 8D23
 Morvan, J., 3H63
 Mosbach, K., 7J132
 Mosca, A., 4D275, 12D148
 Moschetto, Y., 8D209
 Moschidis, M. C., 4D171, 4D173, 5D139
 Moscone, D., 9J137
 Moses, C. O., 11B104
 Moses, L. E., 12D62
 Mosevich, I. K., 4C27
 Moshinskaya, M. B., 5J16
 Moskalevich, V. L., 11B70
 Moskaliuk, K., 11C71
 Mosko, J. A., 12H43
 Moskvitina, T. B., 4B59
 Mosnaim, A. D., 6D156
 Moss, C. W., 6D286, 12D111
 Mosser, E. L., 1D109
 Mostafa, M., 4J155
 Mostert, I., 4D206
 Moston, N. D., 6D109
 Mosulishvili, L. M., 11D7, 12D16
 Mota, M. H. A., 10A6
 Mothes, S., 7C14
 Motomizu, S., 1B131, 4H61, 7B51, 8H63, 10B97, 10B154, 11H41
 Motorina, M. A., 6B102, 7C93
 Motosugi, K., 2C20
 Motozato, Y., 9J34
 Motta, L., 6F79
 Motte, J. C., 4G19
 Mottola, H. A., 5J14
 Moun, G., 8J114
 Mount, D. L., 5D96
 Mountford, L. A., 8D124
 Mousa, S., 3D165
 Mousson, B., 3D269
 Mousty, F., 1B60
 Movsowitz, C., 10D221
 Mowery, R. A., jun., 2J58, 7J16, 9J6
 Moxon, R. E., 7F65, 10H61
 Moy, P. M., 6F68
 Moye, H. A., 11G27
 Moyer, J. C., 4F58
 Moyer, T. P., 7D39, 9D82
 Moyers, J. L., 11J2
 Moyle, W. R., 8D8
 Moynihan, C., 11D144
 Mozersky, S. M., 6F3
 Mraz, J., 10J71
 Mrhar, A., 6D62
 Mroczkowski, S., 1B9
 Mroczkowski, W., 2D41, 5D28
 Mrowetz, D., 6F14
 Msatfe, Y., 9D249
 Mtema, C. A., 12F18
 Mu, G., 9C92
 Mu, S., 3J34
 Much, H., 5C85, 7C72
 Mucha, J. A., 8J6
 Mudakavi, J. R., 1B150
 Mudshingkar, V. V., 6B88
 Muecke, G. K., 5B96
 Muehlhoff, C., 5F28
 Mueke, O., 6F75
 Mueller, D., 9J74
 Mueller, E., 11F30
 Mueller, F., 1J55, 6J102, 8C1
 Mueller, H., 2J20, 7F42, 10C6, 10J11
 Mueller, H. A. G., 9D7
 Mueller, H. W., 12H1
 Mueller, J., 1F20, 12A8
 Mueller, K., 11J74
 Mueller, K. H., 7J115
 Mueller, K. P., 12H42
 Mueller, M. D., 8C9, 11H59
 Mueller, R. A., 9J122
 Mueller, R. D., 11D202
 Mueller, R. E., 1H22
 Mueller, R. K., 4D63
 Mueller, U., 2F25
 Mueller, V., 10J11
 Mueller-Buschbaum, H., 11J81
 Mueller-Mulot, W., 11C56
 Mueller-Vogt, G., 11J86
 Muench, U., 4D43
 Muensch, H. A., 4D254
 Muensch, G., 1D180
 Muessig, P. R., 6J154
 Muhammad, N., 5E43
 Muhtadi, F. J., 3E13
 Muir, A. L., 1D227
 Muir, K. T., 8D65
 Muirhead, K. A., 11D5
 Muirhead, R. A., 10D142
 Mukai, H., 12D143
 Mukai, Y., 5B218, 7B23
 Mukerjee, S. K., 6F60
 Mukerji, D., 3D249, 10D250
 Mukhammedov, S., 4B11, 5H47, 7H28

- Mukherjee, A. K., 9J41
 Mukherjee, D. K., 4C65
 Mukherjee, S., 9B42, 10B20
 Mukherjee, S. K., 4C65
 Mukhopadhyay, S., 2F45
 Mukhovichova, N. P., 9C88
 Mukkala, V.-M., 10D8
 Mulchandani, R., 2J124
 Mulchay, D. E., 12J151
 Mulder, C., 6D155
 Mulik, J. D., 1C1
 Muller, J., 11H23
 Muller, J. P., 1C11
 Muller, L., 10H51
 Muller, P., 3H57
 Muller, P. J., 6H60
 Mulligan, K. J., 5J104, 8A28, 10J134
 Mullin, B. R., 5D135, 9D130
 Mullin, W. J., 2G6
 Mullins, F. G. P., 8C24, 10G27
 Mullins, G. L., 2H39
 Mullins, R., 1D6
 Mullooly, J. P., 4D12
 Muminov, A. I., 5B50
 Muminov, V. A., 5B206
 Munari, F., 6J95, 6J103
 Munch, J. W., 5H73
 Munemori, M., 7H42
 Muneshige, A., 10D139
 Munir, K. M., 7D106
 Munk, M. E., 6J150
 Munoz, F., 8D244
 Munoz, F. E., 3B110
 Munoz de la Pena, A., 1B113, 3B34, 10B132, 11B22
 Munoz Delgado, E., 4D317
 Muntau, H., 4A8, 5A16, 5G20
 Muraca, M., 4D267, 9D225
 Murachi, T., 5D171
 Muradov, V. G., 3J78
 Murai, S., 12H93
 Murakami, K., 6B135, 10D260
 Murakami, M., 9D126
 Murakami, N., 6D80
 Murakami, T., 8B22, 8B96, 8H87
 Murakami, Y., 1B142, 4B168, 5G15
 Muralidhar, K., 5D209
 Muralidhar, N., 1B23
 Muralikrishna, U., 1B81, 1E33, 4G35, 10C47, 12E54
 Muramastu, Y., 11J30
 Muranaka, M., 12E24
 Murano, Y., 11J30
 Murashko, G. M., 4J88
 Murata, A., 1D208
 Murata, H., 7J28
 Murata, K., 2B56, 12D167
 Murata, M., 11B13
 Murata, S., 5D248, 7D151
 Murata, Y., 6J191, 8H58
 Muratova, A. Kh., 3G7
 Muratova, T. L., 6E58
 Murayama, K., 10D234
 Murayama, N., 3D91, 8H29
 Murdoch, S. R., 9D134
 Murdoch, D. J., 9H31
 Mureika-Russell, M., 9C4
 Muresan, L., 1J111
 Murillo, J. A., 1B113
 Murinov, Yu. I., 11B6
 Murkitt, G. S., 8D79
 Muroi, K., 4C15, 12E5
 Muroi, M., 3H31
 Murotsu, T., 3D222, 6D272
 Murphy, B. D., 9G14
 Murphy, G., 11D76
 Murphy, G. M., 9D149
 Murphy, R. C., 4D163, 4J148, 8D120
 Murphy, R. F., 2D181
 Murphy, S. D., 1D77
 Murray, A. C., 6F34
 Murray, A. P., 11H68
 Murray, W., 9D262
 Murray, W. J., 1G16, 8D75
 Murtaugh, T. J., 4D308
 Murthy, R. S. S., 2B1
 Murtiashaw, M. H., 8B41
 Murty, D. R. K., 4D259
 Murty, K. V. S. S., 10C33
 Murty, N. K., 6B123
 Murty, S. S. N., 2E44
 Muschik, G. M., 5G24
 Musha, S., 1D138, 3D139
 Mushimoto, S., 11B13
 Mushtakova, S. P., 1B110
 Musial, C. J., 8F32
 Musikas, N., 11B73
 Muskiet, F. A. J., 1D110, 4D35, 7D118, 12D160
 Musliner, T. A., 9D216
 Mussini, E., 9D160
 Mussini, T., 4A7, 9J124
 Musson, D. G., 9D52
 Musto, J. D., 6D191, 7D193, 9D215
 Musumarra, G., 8D33
 Muszkat, L., 3G19
 Mutafchev, K., 1B115
 Mutchnick, M. G., 8D182
 Mutkoski, R., 5D101
 Muto, H., 4B90
 Mutschler, E., 9D69, 12D83
 Mutti, A., 8D195
 Muys, T., 8F4
 Muzgin, V. N., 10J102
 Muzhanovs'ka, A. M., 3E46
 Muzhanovs'kii, E. B., 3E46
 Muzzarelli, R. A. A., 11F20
 Myasoedov, B. F., 1B57, 4B98, 5B125, 5B126, 5B127, 8B62, 10B77
 Myasoedov, N. F., 4J25
 Myasoedova, G. V., 6H46, 11B150
 Myers, C. M., 6D109, 10D59, 10D69, 11D53
 Myers, M. N., 1J22
 Myers, R. D., 7D164
 Myers, S. A., 4J122
 Myher, J. J., 4F75, 9F54
 Mykhailova, I. Yu., 6E58
 Mykytiuk, A. P., 4A9
 Myllyla, R., 3D278
 Myllynen, L., 3D197
 Mynka, A. F., 5E40
 Mysior, B., 9D188
 Mytchenko, F. A., 6E43
 Na, H. C., 3J80, 11J97
 Naas, A., 10H51
 Naber, K. G., 9D48
 Nabet, P., 6D203
 Nabi, S. A., 2A5, 6C28
 Nabivach, V. M., 3C50, 9C61
 Nabivanets, B. I., 5B247, 9J45
 Naccarato, W. F., 9D254
 Nacht, S. J., 8H37
 Nachtmann, F., 2E18, 3J120
 Nad, A. Z., 1B85
 Nadeau, D., 8D187
 Nadenicek, J. D., 11D136
 Nadezhda, A. A., 7B41
 Nadiradze, N. A., 12J69
 Nadudvari, I., 11C35
 Naegel, U., 9D133
 Nafie, L. A., 8J72
 Nag, U. C., 10F50
 Nagae, T., 8D41
 Nagahama, D., 7D234
 Nagahiro, T., 7B120, 8B124, 9B140
 Nagai, F., 5D5
 Nagai, H., 2B3
 Nagai, M., 7E43
 Nagai, T., 11B97
 Nagai, Y., 3D212, 7D132
 Nagakawa, G., 1B129
 Nagamori, S., 12D189
 Nagamune, T., 7B31
 Nagano, M., 6J181
 Naganuma, K., 10B149
 Nagaoka, T., 4J170
 Nagaosa, Y., 7B67, 9B107, 11B37
 Nagaraja, K. V., 4E63, 5F56, 6F19, 8F46, 10F50
 Nagaraja, P., 9B174
 Nagasawa, K., 11D124
 Nagasawa, Y., 10J105
 Nagase, M., 3J18, 7H24
 Nagashima, K., 2D160, 5B188, 5H27, 8H17
 Nagashima, M., 12H96
 Nagashima, S., 6B93, 8B63
 Nagata, K., 6D200
 Nagata, M., 8C76
 Nagata, O., 10D98
 Nagata, T., 8F27
 Nagatsu, T., 1D131, 11D237, 12D223, 12D228
 Nagayama, T., 8C76
 Nagel, D., 3D272
 Nagel, E., 6B59
 Naggar, P., 1B64
 Nago, A., 7J41
 Nagornaya, I. V., 8B111
 Nagpaul, K. K., 3G3
 Nagumo, S., 12B126
 Nagy, A. H., 3D279
 Nagy, A. Z., 3B95
 Nagy, G., 10D248
 Nagy, K., 7J124
 Nagy, M. S., 3D60
 Nagy, S. B., 3B95
 Nahorski, R., 10D52
 Naida, N. E., 10B90
 Naidu, P. R., 6G32
 Naik, H. B., 4B175, 10B136
 Naik, N. D., 4B175
 Naik, N. R., 1E25
 Naik, P. N., 1E16, 1E29
 Naik, S. D., 9E44
 Naik, S. S., 1E14
 Naikwadi, K. P., 7D213
 Nair, J., 7D106
 Nair, J. B., 1D63, 9J28
 Nair, P. D., 8D96
 Naito, C., 7D202
 Naito, K., 4J69
 Naitoh, T., 8J36
 Najafi, S. I., 5A39
 Nakabayashi, H., 12D189
 Nakada, M., 6D200
 Nakae, M., 5C3
 Nakagawa, G., 2B79, 4J21, 4J46, 5B35, 5B217, 6B47, 7J41, 9J131
 Nakagawa, K., 8D194, 9D101
 Nakagawa, T., 7J28, 10D68
 Nakagawa, Y., 5D137
 Nakahama, H., 12D102
 Nakahara, S., 7B129
 Nakahara, T., 6B98, 6B118, 7J79
 Nakahara, Y., 4D110
 Nakahira, H., 8G14
 Nakai, C., 8D196
 Nakai, T., 9B148
 Nakajima, H., 4B190
 Nakajima, K., 6B37, 8D194, 8D196
 Nakajima, M., 6J47
 Nakajin, S., 4E21
 Nakamaru, A., 5D42
 Nakamizo, M., 9C60
 Nakamoto, M., 9H77
 Nakamura, A., 10J46
 Nakamura, G. R., 2D55
 Nakamura, H., 4D205, 5B59, 5D100, 6B28
 Nakamura, K., 3D108, 3J37, 5D134, 8H65, 11D211, 11J19
 Nakamura, M., 1H34, 3H73, 4D324, 9D95
 Nakamura, N., 10D234, 12D215
 Nakamura, R., 7D86
 Nakamura, S., 10D46, 11B123
 Nakamura, T., 2D207, 3H42, 10B15
 Nakamura, Y., 4C74, 11B18
 Nakamuta, S., 6D29
 Nakanishi, A., 5E3, 8J20, 10J18
 Nakanishi, H., 2F10, 7F21, 7F29, 11F7
 Nakanishi, K., 9J10
 Nakanishi, T., 3B30, 12D32, 12D102
 Nakanishi, Y., 3E23
 Nakano, K., 7D121
 Nakano, M., 9D271, 12D64
 Nakano, N., 5E20
 Nakano, R., 7F54, 11D208
 Nakano, S., 9E45
 Nakao, T., 8H68, 11C30
 Nakao, M., 3D40, 8E35, 10D186
 Nakao, T., 5D145
 Nakashima, K., 5B32, 5D134, 12C20
 Nakashima, R., 1D15, 4B198, 7B147
 Nakashima, S., 7H41, 9H49, 9H57, 11H47
 Nakashima, T., 6D202
 Nakata, K., 5J143
 Nakata, R., 11B85
 Nakatsu, K., 1J25, 5D109
 Nakatsuji, S., 5B32, 12C20
 Nakayama, E., 2J84
 Nakayama, F., 11C70
 Nakayama, H., 2D34
 Nakayama, M., 1B102, 10H75, 11B106
 Nakayama, S., 12H31
 Nakayama, Y., 4F6, 8B109
 Nakazato, M., 7F75, 10D216
 Nakazawa, H., 8F27, 9F17, 12F18
 Nakazawa, K., 7D25
 Nakazuka, E., 4H24
 Nakhshina, E. P., 11H52
 Naley, A. M., 4H73
 Nambara, T., 1D115, 4D201, 5D62, 7C38, 7D150, 8D135, 8D139, 9D88, 9D142, 11D151, 11D153, 12D138
 Nambiar, G. K., 1D201
 Namekawa, H., 5D83
 Namesnik, J., 4J2, 7J3
 Namiki, M., 7B60
 Namvrina, E. G., 11B11
 Nanasi, P., 8C71, 8E40
 Nanayakkara, N. P. D., 9E9
 Nanayakkara, W., 3A4
 Nandi, B., 5B161
 Nandy, S. K., 11B159, 11B160
 Nanetti, M., 12E37
 Nan, H. B., 10B62
 Nangniot, P., 11G39
 Nano, G., 4H39
 Nano, G. M., 6C47
 Nanto, V., 5D36
 Naoki, Y., 7F75
 Napolitano, L., 7D184
 Narang, A. S., 7G13
 Narang, P. K., 8D46, 8D81
 Narang, R. S., 10D112
 Naranjit, D., 7J82
 Narasaraju, T. S. B., 10B41
 Narasimhan, V., 9J35
 Narayana, B. V., 4B9
 Narayanan, M. N., 12E57
 Narayanan, S., 1J39, 4D194, 6J44
 Narayanan, S. S., 3B66, 11C12
 Narayanan, T. K., 11D179
 Narayanaswamy, R., 7J118
 Narbonne, J. F., 6G21
 Narita, H., 11C47
 Narres, H.-D., 12D37
 Nartey, F., 1F6
 Naruse, H., 2D162, 4D162, 6D194, 7D167
 Naryanaswami, A., 8D169
 Narziev, Kh., 6F59
 Nash, D. L., 4J118
 Nash, R. G., 10G18
 Nashivan'ko, L. V., 7B113
 Nasirullah, 5F56
 Nasner, A., 1E43
 Nasralla, M., 1D147
 Nasser, T. A. K., 9B66

- Nassiff, S. J., 11F15
 Nassiopoulos, A. G., 3B62
 Nasuto, R., 10J22, 10J27
 Nataka, T., 6J173
 Natarajan, P. R., 2B47, 4B91, 4B95
 Natelson, S., 9D238, 10G14
 Natera Marin, R., 7F88, 8F59
 Nathan, D. M., 8D214, 12D206
 Nathuram, 5A18
 Nation, R. L., 7D61
 Natora, V., 5G39
 Natusch, D. F. S., 2B89, 10H5
 Naudet, M., 11F40
 Nauer, G., 7A10
 Naujack, K. W., 11C36
 Naumenko, V. A., 8B79
 Naumovich, N. V., 6B12
 Naumski, R., 5D120
 Naus, A. J. M., 4A14
 Navalesi, R., 1D88
 Navarro, M. A., 12F26
 Navarro, R. A., 4G16
 Navarro, S., 9D131, 9D224
 Navas, A., 1B49, 2B75, 5B76
 Navia, J. L., 7D256
 Navon, R., 5D249
 Navratil, O., 1B79, 10B62
 Nawrocki, J., 3J56
 Nayak, A. N., 3F23, 8E47
 Nayak, V. G., 1E25, 2E19, 11E19, 11E27, 11E37
 Nayyar, V. K., 11G12
 Nazare, C. K., 3J89
 Nazarenko, A. Yu., 4B163, 5H84, 9B27, 11A9, 11B10
 Nazarenko, L. M., 9C1
 Nazarenko, V. A., 5B172, 10B127
 Nazarov, W. W., 10H13
 Nazarova, A., 11H54
 Nazarova, L. E., 8E48
 Nazarova, N. Yu., 3B9, 9J126, 12D168
 Nazarova, V. I., 11C29
 Nazeeri, M., 4F22
 Nazimov, I. V., 10D176
 Ndiokwere, C. L., 6C37, 6H47, 11E1
 Neagoe, S., 8C59
 Neale, G., 10D118
 Nealon, L., 12D156
 Neary, D. G., 11G13
 Nebinger, P., 3D92
 Neca, J., 8C41, 10B4
 Nedelkovits, J., 7F89
 Nedler, V. V., 11J67
 Nedoma, J., 1H32
 Nedospasova, L. V., 6D218
 Nedveckaite, T., 8B107
 Neeb, R., 1B14, 7B13
 Needham, L. L., 2D118, 8D93, 8D101, 8D102
 Needs, E. C., 8F38
 Neeley, W. E., 1J77, 7D109, 12D185, 12J108
 Neels, H. M., 1D226, 8D247
 Ne'eman, E., 5B107
 Neese, J. W., 1D183
 Nefedova, F. V., 11B117
 Neff, J. M., 3D245
 Neff, N. H., 9D167
 Neff-Davis, C. A., 4D114
 Negi, D. S., 10D244
 Negi, S., 10B68
 Negi, S. S., 11D193
 Negoiu, D., 2J115
 Nehmer, U., 12G17
 Neicheva, A., 12G10
 Neidhart, B., 5D168, 6B144, 9B138, 12C25
 Neighbors, A. S., 4D310
 Neill, D. B., 4D21
 Neilson, M. J., 6F4
 Nelis, H. J. C. F., 1D194
 Nelsen, T. R., 6G33
 Nelson, C., 12D104
 Nelson, D., 8J110
 Nelson, D. L., 8F54
 Nelson, D. W., 6G12, 8G5
 Nelson, G., 8A24
 Nelson, J. K., 4C28
 Nelson, J. R., 4D82, 10H81
 Nelson, K. H., 8C78
 Nelson, K. M., 7D45
 Nelson, L. O., 6A18
 Nelson, M., 4H22
 Nelson, M. A., 8D39, 12D70
 Nelson, P. A., 2H7
 Nelson, W. J., 5J126
 Nemecek, O., 11D86
 Nemets, S. M., 7H34, 8H54, 10H48
 Nemets, V. M., 10B6, 11J4
 Nemodruk, A., 12H59
 Nemodruk, A. A., 3B65
 Nemori, A., 7B116
 Nemoz, G., 4D316
 Nemtsev, V. A., 6J151
 Nepras, M., 3C19
 Neri, P., 4F26
 Nerin de la Puerta, C., 5B38
 Nerup, J., 9D231
 Nesbitt, H. W., 8B53
 Nesheim, S., 10G3, 10G4
 Neshkova, M., 9J130
 Nesmiyan, T. Ya., 6E16
 Nessel, B., 11D209
 Nessel, T., 12J94
 Nessler, C. L., 9E5
 Nesterenko, N., 5E27
 Nesterenko, P. N., 6B20, 7J14
 Nesterov, N. V., 10H43
 Nesterova, N. P., 5B127
 Nestrick, T. J., 5J55
 Netelenbos, J. C., 10D243
 Neto, F. R. A., 6J5
 Neubeck, R., 11D245
 Neuberger, M., 12H1
 Neue, U., 7J22
 Neuhoef, V., 10J52, 11D209
 Neuilly, M., 5A27, 6A11
 Neuimin, A. D., 3B73
 Neukom, H., 9F8
 Neuman, R. D., 12C73
 Neumann, H., 1E8, 5E8
 Neumann, M. G., 10J67
 Neupokoev, Yu. P., 1B111
 Nevalainen, T. J., 4D327
 Neves, E. A., 7B25
 Neviani Gilberti, E., 7C35
 Neville, M., 6B177
 Nevrekar, V., 2E27, 11D74, 12E61
 Newall, R. G., 5D214, 6D78, 12D229
 Newbery, J. E., 6C26
 Newcome, B., 7J70
 Newey, V., 3D236
 Newhart, A., 7J22
 Newman, E., 11D49
 Newman, F. M., 2H57
 Newman, J. M., 8J47
 Newman, M. A., 9D261
 Newsholme, E. A., 8D253
 Newsome, W. H., 4F30
 Newton, C. J., 3D231
 Newton, D. A., 6J15, 6J16
 Newton, D. C., 6B95
 Newton, R., 3J25
 Newton, T., 3J83
 Neylan, D. L., 7H13
 Nezu, S., 6B47
 Ng, D. L. K., 3D32
 Ng, K. C., 6J138, 7B17, 12B15, 12J99
 Ng, K.-T., 4D96, 5D47
 Ng, R., 10D2
 Ng, R. H., 1D174, 2D20, 10D14
 Ng, S., 2C55
 Ng, T.-L., 7E36
 Ng, W. L., 2C55
 Ngo, J.-L., 8D239
 Ngo, T. T., 5D256, 6D4
 Nguyen, D. C., 5J112
 Nguyen, M. A. T., 10J107
 Nguyen, P., 11H21
 Nguyen, V. D., 12H51
 Nguyen Dinh, H., 11B71
 Nguyen Trong Uyen, 2A9
 Nguyen Van Hung, 12C50
 Ni, K., 12E7
 Ni, L., 3B80
 Ni, Z., 2B60, 7H4, 8H96, 9H52, 12H95
 Niazi, S., 4D100, 4D101
 Nicar, M. J., 10D27
 Nicolai, I., 10J150
 Nice, E. C., 2D183
 Nichikova, P. R., 5C15
 Nicholls, A., 9B126
 Nichols, W., 12D26
 Nicholson, G. A., 5D242
 Nicholson, G. J., 5C26
 Nicholson, J. K., 10D3
 Nicholson, W. E., 9D205
 Nickel, B., 11C15
 Nickell, G. L., 1J56
 Nickoloff, E. L., 4D259, 10D101
 Nicol, D. J., 4D276
 Nicola, E. M. de M., 10G15
 Nicolas, A., 4E13, 7E29, 9E41, 11D149, 11F15
 Nicolas, J.-C., 4D192, 7D144
 Nicoletti, R., 3J33
 Nicolson, I. A., 10F4
 Nicot, G., 6D57, 11D79
 Nie, C., 3B98
 Nieass, C. S., 10C5
 Niebergall, K., 4J124
 Niebyl, J., 6D223
 Nieder, M., 7D64
 Niederwieser, A., 7D205
 Niedmann, P. D., 5D141
 Niell, H. B., 10D75
 Nielsen, J. S., 4B36, 9H84
 Nielsen, L., 5C36, 9D231
 Nielsen, M. D., 11D152
 Nielsen, R. A., 5B105
 Nielson, K. K., 3A12, 5C75
 Nieman, J., 2A9
 Nieman, T. A., 3B42, 3J121, 7B39, 7D113, 12C54
 Niemann, R. A., 7D102
 Niemczyk, T. M., 3J80, 6B35, 11J97
 Niepel, B., 5D195
 Nies, A. S., 5D79
 Nies, J. D., 10H33
 Niese, S., 9B178, 9J118
 Nieuweboer, B., 8D73
 Nieuwendijk, B. J. T., 2D39
 Nievelstein, H. N. M. W., 1D151
 Niewiadomy, A., 5B241, 10B134, 10H88
 Nigam, P. C., 7B71
 Niinuma, Y., 2D176
 Niitsu, M., 5B218, 7B23, 8B98
 Nijhuis, H., 5F28
 Nikelly, J. G., 4J29, 9J27
 Nikiforov, A., 8F41
 Nikipelova, E. M., 4B174
 Nikitin, K. N., 9H9
 Nikitin, Yu. E., 11B6
 Nikitin, Yu. S., 9D204
 Nikitina, N. S., 6J86
 Nikitina, O. I., 3B94, 4B158
 Nikitina, S. A., 4B92, 5B120
 Nikitina, V. P., 4B105
 Nikkinen-Vilkki, P., 12D45
 Niklasson, F. A., 2D212, 2D222
 Nikolaev, A. I., 4B140
 Nikolaev, N. N., 8E18
 Nikolaev, V. I., 11J29
 Nikolaev, V. M., 5C5
 Nikolaeva, D. N., 7B5
 Nikolaeva, E. G., 4D106
 Nikolaeva, E. M., 3B50
 Nikolaeva, L. N., 8B37
 Nikolaeva, T. M., 8C8
 Nikolic, K. I., 6E15
 Nikolic, P. M., 5J118
 Nikolics, K., 10E1
 Nikolov, M., 9D228
 Nikolov, Zh., 5H93
 Nikonov, V. N., 1J98
 Nikulaeva, T. A., 9B154, 12B12
 Nikulichva, N. A., 6J86
 Nikulin, V. P., 8D94
 Nilsson, B., 4D193
 Nilsson, C.-A., 2H30, 4H37, 5H32, 8H31, 12H30, 12H38
 Nilsson, J., 4D228
 Nilsson, K., 5D221
 Nilsson, L. G., 12D65
 Nilsson-Ehle, I., 3D38
 Nimit, Y., 10D162
 Nimura, Y., 11D238
 Ning, J. M., 11D76
 Ning, M., 7B65
 Nink, R., 10J81, 10J82
 Nino, J. A., 3D76
 Nino, N., 11E8
 Nin'o, N. S., 11E41
 Ninomiya, I., 4D199
 Ninomiya, T., 4F54, 7F28, 7F35
 Nippoldt, M. A., 1B114
 Nir-El, Y., 11C39
 Nishida, H., 5B59
 Nishide, S., 9E45
 Nishihara, K., 9D65
 Nishihara, T., 12J117, 12J119
 Nishihata, T., 4D130, 9D47
 Nishijima, M., 7F75
 Nishikawa, M., 8H8, 12E24
 Nishikawa, T., 5C7, 10D98, 10J99
 Nishikawa, Y., 8H58, 9B41
 Nishimoto, M., 11C70
 Nishimura, H., 2H15
 Nishimura, K., 5B205, 6B131, 9H48
 Nishino, H., 6D200
 Nishino, K., 12D230
 Nishio, H., 8D167
 Nishioka, H., 2B72
 Nishioka, R., 6D81
 Nishiyama, J., 11D116
 Nishizawa, M., 5B203
 Nissen, H. P., 2D148
 Nissenbaum, E., 1D155
 Nissenson, R. A., 2D183
 Nissinen, E., 5D85, 11D239
 Nitanda, T., 10F58
 Nitsche, V., 11D77
 Nitsche, W., 11D75
 Niu, C., 6B87
 Niu, F., 5B103
 Nivaud, E., 8E54
 Niwa, S., 7D110
 Niwa, T., 6D152
 Niwaguchi, T., 3D62, 3D63, 10D96, 10E28, 11D81, 12D82
 Nixon, J. E., 5D124
 Niyazkhonov, T., 8D161
 Niz'eva, N. V., 9B23
 Nizhnik, A. N., 8D213
 Nizhnikovskaya, P. F., 4B157
 Nkanza, C., 6B180
 No, K., 7C24
 Noack, S., 2G29
 Nobiling, R., 12J135
 Nobuhara, Y., 3E23
 Noda, K., 2D78
 Noda, N., 12E11, 12E18, 12E49
 Noda, S., 6J184
 Noe, A. J., 8D89
 Noe, D. A., 12D201
 Noel, L., 10H31
 Noelscher, C., 12B14
 Noertker, L. J., 3C55
 Nogar, N. S., 7J113, 12B74
 Noggle, F. T., jun., 7E23, 8E12
 Noguchi, H., 2D78
 Noguchi, M., 9D54, 12H56
 Noguchi, T. T., 4D112, 12D59
 Nohara, A., 6D200
 Nohara, M., 8F3, 9F53
 Nohl, A., 12J57
 Nohta, H., 7D238, 8D236, 9D168
 Nolan, J. E., 12J4
 Nolte, J., 4C38, 7C23

- Nolting, H. G., 5G41
 Nomeir, A. A., 8D92
 Nomura, H., 10J26
 Nomura, K., 4J46, 6B119
 Nomura, M., 2D207
 Nomura, N., 1B34, 8B21
 Nomura, O., 11D210
 Nomura, T., 4F53, 6B172, 7B31, 9J131
 Nondek, L., 4F11, 7G36, 11J14
 Nonidez, W. K., 1D192
 Nonova, D., 9B21
 Noomhorm, A., 6G1
 Noon, D. L., 6D109
 Noordsij, A., 11H55
 Norcott, K. M., 10E45
 Nord, L., 10B11
 Norden, H., 2J62
 Nordgren, I. K., 11D96
 Nordholm, L., 2D127, 9D90
 Nordin, P., 1D86
 Nordstrom, D. K., 11B104
 Nordstrom, K., 10D171
 Noren, K., 1D78
 Norgaard-Pedersen, B., 1D222
 Norling, L. L., 1D28
 Norman, E. J., 1D82
 Norman, J., 1D117
 Norman, J. D., 2G8
 Norman, T. R., 7D71
 Norrgard, K., 5C79
 Norris, B., 9E40
 Norris, G. B., 8J119
 Norris, T., 10E43
 Norstrom, A., 12H38
 Northrop, D. B., 3D231
 Norton, K. C., 6D178
 Norum, E., 5F13
 Norvell, V. E., 7J122
 Norwitz, G., 3C32, 11C23
 Nose, N., 11D25
 Nose, O., 1D163
 Nosedá, A., 6D166
 Nosek, J., 12B106
 Noshiro, M., 1C39, 8C79
 Nosova, E. B., 12B56
 Nosova, V. S., 11C34
 Nota, G., 10H77, 10J60
 Notarangelo, G., 9G26
 Notar-Francesco, V. J., 4D313
 Notarnicola, A., 9D63
 Nothenberg, M. S., 2E42, 9E50
 Noto, A., 4D324
 Nouaille, Y., 6D57, 11D79
 Nouchi, I., 11H35
 Nouri, A., 12H97
 Nouveau, J., 12D94
 Novak, A., 3C19
 Novak, F. P., 4J151
 Novak, J., 2C25, 7A14
 Novak, T., 10J59
 Novakovskaya, E. G., 1B148
 Novic, M., 2A19
 Novikov, A. I., 5B19
 Novikova, E. I., 2C69
 Novikova, G. K., 10B67
 Novikova, I. S., 12H19
 Novina, R., 3C10, 8C12, 9C8
 Novoselova, M. M., 10B127
 Novotny, M., 5B239
 Novotny, M. V., 2J22, 3J62, 6J25, 10J14, 11C26, 11D8
 Novozamsky, I., 11D21
 Novrocik, J., 10C30
 Novrocikova, M., 10C30
 Nowak-Ossorio, M., 2C63, 4C79
 Nowicka, J., 10B82
 Nowicka, K., 11J58
 Nowicki, L. J., 5A29
 Nowlin, J. G., 3C1
 Nowotny, P., 5F6, 8F21, 10F44
 Noy, M., 9E1
 Noy, T., 6C1, 12H78
 Noyce, J. R., 6B57
 Noyes, C. M., 3D141
 Nozaki, M., 10D139
 Nozaki, S., 12D240
 Nozaki, T., 4B17
 Nozawa, M., 3G18, 7G37, 8G14
 Nozawa, T., 3F21
 Nuechter, M., 8D28
 Nuernberg, G., 12H66
 Nuernberg, H. W., 6H49, 11H33, 12D24, 12D37, 12H50, 12H51, 12H53, 12H88
 Nugel, E., 6D254
 Nulton, C. P., 12H105
 Nunez, A. J., 7J54, 8J56, 11F29
 Nurmela, K., 4J15
 Nurok, D., 6J54, 6J55, 10J61, 11J46
 Nurtaeva, G. K., 1B92
 Nusch, E. A., 11H66
 Nuti, V., 4E61
 Nutmagul, W., 6H30
 Nutter, L. J., 11D136
 Nwabue, F. I., 11B112
 Nyasulu, F. W. M., 7D186
 Nyberg, F., 5D186
 Nyberg, P. C., 10H14
 Nydahl, F., 7H52
 Nyfeler, R., 5D192
 Nygaard, D. D., 5J105, 12J100
 Nyhan, J. W., 11G14
 Nyireddy, S., 2J40
 Nylandstedt-Larsen, A., 1B10
 Nystrom, E., 4D229, 11D178
 Nytko, K., 3B83, 10B167
 Oakes, S., 9D262
 Oakley, E. T., 1D79, 1D85
 Oaks, A., 5G5
 Oates, J. A., 9D163
 Oatis, J. E., jun., 6D106
 Oba, T., 12D147
 Obbens, H., 6C34
 Obedkova, N. M., 3E12
 Obenaus, H. B., 12C80
 Oberem, K. T., 11H50
 Oberkotter, L. V., 3D153
 Oberlaender, H., 5G18
 Obermann, P., 10H42
 Obi, F. C., 5B124
 Obita, J. A., 4C99
 Oblivantsev, A. N., 12B10, 12B11
 Obodinskaya, N. V., 7B160, 9B63
 Obretenov, Ts., 7F38
 Obrezkov, O. N., 4B18
 O'Brien, G. E., 12C32
 O'Brien, J. F., 6D312
 O'Brien, R. J., 4J130
 Obrusnik, I., 1B61
 Obst, U., 10H94
 Obsyannikov, L. F., 6B125
 Obtemperanskaya, S. I., 4C21
 Obuchi, A., 12C46
 Obzansky, D. M., 4D157
 Ocampo, R., 11B156
 O'Carroll, R. E., 6D236
 Occolowitz, J. L., 7J106
 Ochi, C., 11B100
 Ochikova, T. N., 6B158
 Ochotorena Ramirez, J., 3B21
 Ochs, D., 8D189
 Ochs, H. R., 2D63, 12D80
 Ochsner, M., 1E23
 Oda, G., 4D248
 Oda, K., 7D237, 8D242, 9D255, 11D217
 Oda, Y., 1J110
 Odaka, Y., 5D97
 Odam, E. M., 6D144
 Odashima, A., 7D167
 Odashima, T., 2B70, 4B176, 7B130
 O'Dea, J. J., 8J127
 Odelius, H., 7J103
 Odham, G., 8D170, 11D259B, 11G41
 Odo, J., 12D191
 Odomi, M., 6D130
 O'Donnell, J. A., 4B196
 O'Donovan, G. A., 4D49, 4D315
 Odori, Y., 11C30
 Ody, C. E., 5D188
 Oechsner, H., 7J115
 Oedegaard, S., 2D104
 Oegema, T. R., jun., 3D210
 Oehme, F., 7J2
 Oehme, M., 6H37, 9H32
 Oei, T. O., 2D196, 6D262
 Oelert, H.-H., 5C63, 10J68
 Oelschlaeger, H., 6E62, 7D66
 Oesch, U., 10J132
 Oestvold, G., 7C61
 Offenbacher, H., 9B111, 12B129
 Offizor, P., 10F54
 Ofverstedt, L.-G., 6D247, 10D191
 Ogan, K. L., 5J31, 12J21
 Oganessyan, G. O., 6H4
 Oganessyan, L. B., 1B140, 3B39, 9B161
 Oganezov, K. A., 4B30
 Ogasawara, I., 10J99
 Ogata, H., 1D56
 Ogata, K., 1D19, 9D194
 Ogata, M., 3H70
 Ogawa, H., 1D28, 4D52
 Ogawa, I., 6H81
 Ogawa, M., 1D208
 Ogawa, S., 8F3
 Ogawa, T., 5C53, 8J31, 9B43, 9B127, 9J31
 Ogawa, Y., 4D324
 Ogden, C., 11B28
 Ogden, M. W., 6J77
 Oggershok, D. A., 5J88
 Ogierman, L., 1G12, 3C41
 Ogihara, Y., 3E14
 Ogilvie, A., 6D276
 Ogiwara, T., 3F21, 4F36
 Ogle, G., 6F5
 Ogner, G., 5D14
 Ognyanova, V., 7D70
 O'Gorman, D., 1H10
 Ogorodnik, V. V., 8E56
 O'Grady, B. V., 4H84
 Ogren, J. A., 7H40
 Ogren, L., 5B64
 O'Grodnick, J. S., 1D74
 Ogugbuaja, V. O., 5B277
 Oguma, K., 1B116, 2B51, 4H18, 12B83
 Oguri, H., 6C59
 Oguri, R., 5E17
 Ogurtsov, V. V., 3E52
 Ogushi, F., 3D108
 Oh, K. K., 3C64
 O'Hara, K., 5D243
 Ohara, Y., 7H59
 O'Hare, M. J., 2D183, 8D140
 O'Hare, M. M. T., 2D181, 6D230
 Ohashi, K., 6B135, 10B125
 Ohashi, M., 9J111, 10J53
 Ohashi, N., 5J182, 12H56
 Ohashi, S., 5D246
 O'Haver, T. C., 1D31, 5J93, 6A8, 9B10, 9J94, 10J85, 10J89
 Ohhashi, Y., 3F1
 Ohi, A., 12C46
 Ohkawa, H., 9D124
 Ohkawa, T., 12D120
 Ohki, T., 6D152
 Ohkubo, M., 1B104
 Ohkubo, T., 8D135
 Ohkuma, S., 9D170
 Ohkura, Y., 4D213, 6D315, 6D316, 7D238, 8D236, 9D95, 9D168
 Ohls, K., 11B109, 11B140, 12J74
 Ohlweiler, D. F., 11D93
 Ohmae, M., 8J36
 Ohmori, K., 6D214
 Ohmori, M., 6D214
 Ohmori, S., 6D128, 6D220, 9D194, 12D85, 12D174
 Ohmori, T., 4B73
 Ohms, J. P., 10G1
 Ohmura, T., 7D74
 Ohnishi, K., 3F21
 Ohnishi, S., 5J24, 5J29, 8J24, 8J26
 Ohno, M., 12J6
 Ohokoshi, S., 10B25
 Ohokuni, N., 7F52
 Ohonishi, K., 4F36
 Ohru, H., 9B113
 Ohsaka, A., 6D157
 Ohsawa, K., 4C56, 8D188
 Ohsawa, N., 9D171
 Ohshima, H., 5F27
 Ohshima, Y., 3E11
 Ohshiro, H., 2C32, 9C58
 Ohshita, K., 5B217
 Ohta, H., 4F52, 8F22
 Ohta, K., 9B159
 Ohta, M., 8D179
 Ohta, N., 6B10
 Ohta, S., 12D122
 Ohta, T., 3H64
 Ohtake, I., 5D41
 Ohtaki, S., 5D206, 8D194
 Ohtani, K., 4D80
 Ohtsuka, J., 2B3
 Ohtsuki, T., 4H40
 Ohuchi, H., 12C46
 Ohura, T., 8D243
 Ohya, K., 7B30
 Ohyagi, Y., 10J99
 Ohzeki, K., 5C34, 6B149, 6B164, 6C13, 9B115, 10H55, 11H42
 Oi, N., 3C8, 3J18, 10D164
 Oikarinen, J., 3D278
 Oikawa, A., 2D179
 Oikawa, K., 6H9, 6H32, 8F34, 12E63
 Oikawa, T., 10E28
 Oishi, H., 10B15
 Oishi, K., 9B189
 Oishi, R., 2D167
 Oja, S. S., 12J147
 Oji, Y., 8F24
 Oka, A., 10H75
 Oka, H., 1F11, 7D202, 8E32
 Oka, K., 9D54, 12D86
 Oka, S., 9D146, 10D6
 Okabayashi, I., 6D80
 Okabe, T., 8B95
 Okada, E., 3C9, 3E19, 8E20, 8F22
 Okada, M., 5D122, 9D171, 11F23
 Okada, T., 3G18, 6F22, 6H45, 7F28, 7F35, 7G37, 7J130, 8B15, 8F14
 Okada, Y., 1C6, 3D127, 6D318
 Okagawa, Y., 1D229
 Okahira, A., 2C18, 7D110
 Okai, T., 10H19
 Okamoto, K., 8H65
 Okamoto, M., 8C18, 9C36, 12D32, 12D122
 Okamoto, S., 8F24
 Okamoto, T., 11B124
 Okamoto, Y., 12J118, 12J119
 Okamura, K., 4B17, 4D274
 Okamura, M., 5D246
 Okawa, S., 9B39
 Okazaki, K., 4F6, 12F4
 Okazaki, M., 7D202
 Okazaki, S., 4J170, 7D21
 Okazaki, T., 10D139
 O'Keefe, M., 5G23
 Okerholm, R. A., 7D81, 11D93
 Okita, T., 10H4, 11H35
 Okiyama, K., 4E21
 Okner, J., 10D21
 Okochi, H., 7B93, 12B146
 Okochi, K., 4D194
 Okos, M. R., 1G1
 Okoye, Z. S. C., 12D7
 Oksenoit, E. S., 5D255
 Okubo, N., 10B150
 Okubo, T., 8H51
 Okuda, S., 7D124
 Okuda, Y., 5C91
 Okui, F., 2C5, 9C10
 Okumoto, C., 12H96

- Okumura, Y., 5D251
Okura, T., 12D191
Okutani, T., 1B99, 9H61
Okuyama, N., 8D191
Okuyama, T., 4J49, 7D185, 12D245
Olander, G., 1D39
O'Laughlin, J. W., 6B9
Oldfield, E. H., 9D97
Oldfield, S., 8J9
Oldham, K. B., 5J186
Oldham, P. B., 12J102
O'Leary, N., 6D283
Olech, A., 8D38
Olefirenko, N. M., 10C3
Oleinichev, V. G., 1B37
Olek, M., 8G3
Olempska-Beer, Z., 8D219
Olenovich, N. L., 6B100
Olenoviya, N. L., 4B174
Olerich, G., 4D141
Olesen, H., 1D196
Olieman, C., 9F35
Olin, A., 2C19, 7H52
Olivares, J., 3D232
Oliver, D. G., 11F26
Oliver, R. W. A., 2D154
Olivesi, A., 1D54
Olivieri, P., 10J150
Olivo, J.-P., 7J64
Oliw, E. H., 2D138
Ol'khovich, P. F., 6H54
Olsen, C. S., 3E36
Olsen, K. B., 5C75
Olsen, O., 10D117
Olsen, S., 3H34
Olsina, R., 10B43
Olson, D. P., 7D148
Olson, E. S., 2H71
Olson, G. J., 7D100
Olson, M. S., 4D281
Olson, W. P., 6E64
Olsson, M., 11H69
Olsson, R., 3D205
Olsson, T., 10D200
Olynyk, P., 7H54
Olzer, D., 3D50
Omae, T., 6D29
O'Malley, A. H., 6D233
Omasa, R., 6D200
Omatu, M., 11B13
Omaye, S. T., 6D285
Omel'chenko, Yu. A., 4B151, 9B143
Omelchenko, N., 3C56
Omenetto, N., 1B60, 5B110, 8J99
Omer, S. E., 11C63
Omichi, K., 5D253, 11D248
Omori, K., 11B100
Omori, T., 11B100, 11B124, 11B125
Ondrej, J., 5H83
Ondrousek, S., 10F60
O'Neil, P., 6H92
O'Neil, P. J., 6E9
O'Neill, I. K., 5H98B
O'Neill, S. P., 2D50
Ong, H., 10D60
Ong, S. T., 4D54
Ongley, R., 4D119
Oniciu, L., 1J111
Oniscu, C., 3E29
Onishi, H., 4H78
Onji, Y., 8G14
Ono, A., 2C34, 4C37, 6C18, 6J48
Ono, E., 1D221
Ono, H., 5D62
Ono, M., 12E5
Ono, N., 8F3
Onodera, M., 6D169
Onodera, S., 2H58, 11C10, 12C28
Onodera, T., 4H75
Onokiewicz, J. H. L., 2J108
Onoue, Y., 9B41
Onur, E., 5E60
Onuska, F. I., 5H3, 6H87, 6J80, 12J59
Oomens, A. C., 9B102
Ooms, R., 2F42
Oosterbaan, M. J. M., 2D58, 11D58
Oosterling, R. A. M., 2J76
Oosting, E., 4D35
Ooyu, S., 9B89
Opanasyuk, Yu. D., 9H20
Opasniy, V., 5B234
Opdycke, W. N., 5J174, 7J128
Opekar, F., 3J3
Openshaw, J. D., 3J51
Opheim, K. E., 4A5, 7D87
Oppenheimer, L. E., 4J178
Oppermann, G., 7C14, 7J69, 9H21
O'Prey, D. G., 9A32
Oratovskaya, E. V., 11B27
Oray, B., 3D277, 5D179
Orchard, M. A., 10D132
Ord, D., 12A14, 12D130
Ordenez-Llanos, J., 8D173, 10D173
Ordonez, F. O., 4C21
Oreans, M., 6J102, 8C1
O'Reilly, D., 7D196
Oreld, F., 7H55
Orestova, I. I., 5G1
Oriani, G., 6D111
O'Riordan, J. L. H., 12D220
Orta, Y., 12D102
Orlando, R. A., 8D239
Orlic, I., 7B144, 11B44
Orlins'kii, M. M., 11E40
Orlov, P. B., 11B165
Orlova, E. S., 1B124, 5B152
Orlyns'kii, M. M., 5D80
Orme, M. L'E., 8D83
Oropeza, M. J., 6D223
Orr, J. M., 11D68
Ortega, E., 3J111
Orsulak, P. J., 11D236
Ortale, C., 6J171
Ortega, M. S., 8B84
Orth, D. N., 9D205
Ortiz, L., 5J145
Ortiz-de-Luna, R. I., 6D292
Ortner, H. M., 4B26, 7B11, 11B101
Ortolano, G. A., 4D32
Orton, T. C., 3D52
Ortuno, J. A., 9B51
Orvini, E., 5D35, 9A13
Orzaez Villanueva, M. T., 12F28
Orzhekhovskaya, A. I., 1B65
Osajima, Y., 4F52, 4F53, 4F67, 10F58
Osaki, S., 2H47, 3H48
Osaki, T., 2H47, 3H48
Osborn, M. J., 9D82
Osborn, P. R., 11C46
Osborne, B. G., 3G2, 5F15, 6F32, 6G3
Osborne, D. J., 8D123
O'Shannessy, D. J., 5D151
Osheim, D. L., 4D30
Oshemkov, S. V., 6B29, 7B139, 11J4
Oshima, H., 7F5
Oshima, M., 4H61, 7B51, 10B97, 10B154
Oshima, R., 2C14, 9D109
Oshima, T., 5E10, 6J49
Oshima, Y., 4E17
Oshino, R., 11D228
Osibanjo, O., 8C52
Osipov, N. N., 2A13, 3H32
Osipova, E. A., 3B100, 4B166
Osjord, E. H., 6C35
Osman, M. A., 1C12
Ossicini, L., 11B145
Ostapczuk, P., 12D24, 12D38
Ostapyyuk, S. N., 5C94
Osterdahl, B.-G., 5D94
Osterholz, A., 5E5
Osterloh, J., 10D40
Osteryoung, J., 5D90, 6B30, 8J127, 9D235, 9D236
Osteryoung, J. G., 10C26
Osteryoung, R. A., 1E12, 5B79, 6J188
Ostroukhov, N. S., 6F24
Ostroumov, E. A., 1B101, 6B48, 12H70
Ostroumov, V. V., 11D26
OstroushOstroushko, V. I., 9C38
Ostrovodov, E. A., 6J41, 9J26
Ostrovskaya, V. M., 9B23
Ostrovsky, I., 7C33, 8C28
Ostrum, V. H., 12H39
Ostrzycka, J., 2F37
Osumi, K., 10H63
Oswalt, J., 10J107
Ota, H., 4D336
Otey, M. G., 12J178
Othman, M. Y. B., 12C9
Otomo, M., 3B30
O'Toole, A., 5D183
Otoupalova, J., 1C34
Otruba, V., 3B25
Oton, R., 3H17, 12H34, 12H35
Ostavnov, P. S., 4B72
Otsuka, H., 4B88, 7D12
Otsuka, K., 1F12, 8J44
Otsuka, S., 10H25
Otsuki, A., 5H64
Otsuru, O., 7F82
Ott, D. E., 8G16
Ott, E. M., 6H73
Ott, R. A., 10D72
Ottaway, J. M., 1D31, 2D17, 2J74, 6D35, 6D42, 6J135, 6J139, 8J83, 9B10, 9J93, 10J90
Otte, G. V., 5C109
Ottenheim, H. C. J., 2D58
Ottenstein, D. M., 10F72
Otto, I., 11H21
Otto, M., 3J23
Otwinska, H., 5C25, 5C112, 5E27
Ou, C.-N., 3D220, 6D58, 12D187
Ou, Y., 9J135
Ouf, A. M. A., 7E39
Ourisson, G., 11B156
Outiki, O., 5B284
Ouvry, D., 8D209
Ou-Yang, C. C., 8B43
Ovadia, E., 5J155
Ovchar, L. A., 9B46, 10B45
Ovechkin, V. V., 4B93
Overath, H., 11H50
Overmars, H., 10D156
Overzet, F., 3D75
Ovsepyan, E. N., 5B262, 11B152
Owa, T., 9C40
Owada, E., 9D87
Owada, K., 4F6
Owen, A. J., 8F38
Owen, J. A., 2D51
Owen, J. T. R., 8E84
Owen, R., 7F31
Owens, N. J. P., 1B83
Owens, P., 8D157
Owens, P. M., 7J88
Owens, S. M., 10D88
Owerbach, D., 8C97
Owunwanne, A., 11J41
Oya, M., 2D215, 4D36
Oza, B. N., 4B43
Ozaki, H., 8J23
Ozaki, M., 9F31
Ozaki, N., 2J24
Ozaki, T., 8D55
Ozaki, Y., 6D200, 12D64
Ozasa, M., 9B112
Ozawa, H., 12H92
Ozawa, T., 9D126
Ozawa, Y., 5D169
Ozek, F., 11B157
Paal, A., 5J132
Paama, L., 5J7
Paarikh, A. K., 10E32
Paasivirta, J., 5G31, 11C17
Pabel, E., 3H29
Pabon, V. M., 7B50
Pabst, H. M. E., 11F6
Pacakova, V., 10J41
Pace, M., 1D218
Pacey, G. E., 5B216, 9B18, 10B27, 12J13
Pacheco, H., 4D316
Pacholec, F., 2J53, 11J56, 12J66
Paciotti, M., 5D162
Packard, C. J., 10D215
Packwood, R. H., 9J107
Padmanabhan, K. R., 9B185
Padovani, P., 2D93
Paetzke, I., 1D182
Page, A. G., 4B97, 5B113, 6B69, 12J96
Page, B. D., 4F37
Page, C. T., 4C88
Page, J. A., 3D134, 12J171
Page, S. J., 2H5
Page, V., 2J104
Pagenkopf, G. K., 5H71, 6A13, 7J47, 8B16, 8B17
Pages, P., 5C98
Pagura, C., 8B9, 8J130, 11J111
Pahl, T. R., 11C62
Pahuski, E. E., 4J10
Paik, W. K., 2D223
Painter, P. C., 6C44, 7C62
Painton, C. C., 5J14
Pajor, A., 12J45
Pak, C. Y. C., 6D164
Pakalns, P., 1C25
Pakarinen, P., 5D36
Pakhomova, N. I., 4B201
Pakhomova, T. M., 8B37
Pakuts, A. P., 6G26
Pal, D., 4B154
Pal, F., 4J174
Pal, I. B., 11B160
Pal, M., 11A16
Pal, N., 12J157
Pal, T., 1B139
Palacios, F., 5B112, 8B84
Palacios, M. A., 4B155
Palacios Corvillo, M. A., 5B154, 5B246, 5D20
Palacios Gonzalez, J. L., 3B102
Palagi, U., 4D64
Palagyi, S., 2H50, 5H52
Palaitis, W., 9C20
Paiaivinskas, R., 11D10
Palcsek, E., 4D278
Palermo, P. J., 9E62
Palibroda, N., 8C30
Palka, A., 3C41
Palleschi, G., 5D51, 9J137
Palma, P. A., 9D16
Palmer, J. K., 11D225
Palmer, J. M., 10C57
Palmer, M. V., 5G28
Palmer, T., 6D295, 9D179
Palmes, E. D., 1H13
Palmieri, S., 5G8
Palmisano, F., 5H36, 11D106
Palo, V., 7F64
Palod, S., 1F16
Paloposki, M., 7F30
Palumbo, G., 5D200
Paluska, E., 5F51
Pamler, W., 2B18
Pan, C., 3F8
Pan, J., 5B227, 6J182, 10D25, 12B155, 12J158
Pan, Q., 8B74, 12B115
Pan, S., 12B117
Pan, X.-Q., 2D204
Pan, Z., 5J164, 6B101, 10B46
Panaggio, A., 8E61
Panaotova, M., 8A6
Panaro, K. W., 4B133, 10B101
Panci, J., 7B99
Pande, S. P., 2H46, 10H58
Pandey, G. S., 4B52, 11B29
Pandey, H. D., 4B199, 8B116
Pandey, L. P., 6B157
Pandey, S., 11D97
Pandey, Y. N., 12E41
Pandey, K. B., 6B73
Pandit, J. K., 11D97

- Pandit, U. R., 11E37
 Pandit, V. R., 11E19
 Pandov, H. I., 8D144
 Pandya, G. H., 8H48
 Pandya, M. K., 2D80
 Panettieri, R. A., 6F3
 Pangarova, T., 6E18, 11E5
 Pani, A., 7B77
 Pani, S. S., 6B155, 6B156
 Panichev, N. A., 3H32, 3J74
 Panijpan, B., 3D240
 Pankaskie, M. C., 7D56
 Pankow, J. F., 1J47, 2C7, 6H35
 Pannell, L. K., 7D6
 Pannuti, F., 2D111
 Panochevnyi, E. A., 1B68
 Panopio, L. G., 6G29
 Panova, S. N., 9B176
 Panovici, I. I., 7C98
 Panse, D. G., 8J58
 Pantani, F., 5H70
 Pantarotto, C., 4D138
 Pantel, S., 3C21, 9J105, 11C14
 Panten, U., 5J8
 Pao, J., 4D123
 Paoletti, R., 5F7, 9A1B, 12D227
 Papa, F., 4D323
 Papa, I., 3E44
 Papadopoulos, C., 4C16
 Papadopoulos, N. M., 4D299
 Papadopolou-Mourkidou, E., 6G27, 11G40
 Papadopyannis, I. N., 4C14, 4C42, 11A17
 Papale, U., 10H77
 Papanastasiou-Diamandi, A., 6D196, 9D147
 Paparazzo, E., 5B199
 Papas, A. N., 8E70
 Papaspyrides, C. D., 9C80
 Papazova, D., 10C55
 Pape, B. E., 2D60, 6D74, 6D75
 Pape, W., 3D270, 3D271
 Papendick, R. L., 11G29
 Papernyi, V. L., 9J70
 Papeschi, G., 3E42, 10J131
 Papez, V., 8B61
 Papina, T. S., 5B144, 9B186
 Papoff, P., 6J145, 8J13
 Papp, E., 7C39
 Papp, L., 4B7, 7H11
 Pappas, A. A., 9D102
 Paputa-Peck, M. C., 5C71
 Paquet, D., 6G20
 Paradis, P., 6D23
 Parag, G., 6D192
 Parameswaran, K. N., 1D164
 Paravicini, U., 4D290
 Parbhoo, S., 9D270
 Parcher, J. F., 1J54, 3J63, 10H32
 Parczewski, A., 5A24, 5A25, 5J165
 Pardaev, E., 4B11
 Pardo, R., 2B57
 Pardue, H. L., 1D105, 3J82, 4J102, 7J80, 9D115
 Pardun, H., 5G22
 Parente, E. S., 12D236
 Parham, H., 10B159
 Parhi, N., 4B65
 Pariali, A., 6E6, 11E4
 Parikh, A. K., 11E20
 Parini, C., 5D154
 Park, B. K., 6D287
 Park, G. B., 4D117
 Park, H. H., 11B56
 Park, J. Y., 4B143
 Park, N. J., 1J53
 Park, Y. H., 9D89
 Parkas, R., 6A6
 Parkash, R., 8C22
 Parker, A., 10J1
 Parker, C. D., 4J151
 Parker, C. E., 5C41
 Parker, G. A., 4B204B
 Parker, J. G., 5H75
 Parker, K. J., 11F46B
 Parker, K. M., 8D16
 Parker, L. M., 7A21
 Parker, P., 4B154
 Parker, P. E., 3H54
 Parker, S., 4D146
 Parker, T. D., III, 12D104
 Parker, W. A., 8D109
 Parkhurst, G. W., 5D72
 Parkhurst, R. M., 10D244
 Parkin, J. E., 12C11
 Parks, O. W., 4D125
 Parks, S. J., 7J128
 Parlag, A. M., 4B47
 Parlar, H., 7H5
 Parli, J. D., 9J60
 Parnham, G. M., 6G22
 Parrado, C., 10D146
 Parris, N., 1F8, 11D170
 Parris, R. M., 8C51
 Parrish, C. C., 3D112
 Parrish, D., 1D12
 Parrish, D. B., 4G21
 Parrish, F. W., 10G7
 Parry, S. J., 10J118
 Parry-Jones, R., 6C26
 Parshin, A. K., 5B268
 Parsons, D. N., 2D84
 Parsons, G. H., jun., 4J9
 Parsons, M. L., 5B6, 6H28, 12J97
 Partridge, R. H., 8H5
 Partyka, D. V., 5C27
 Parubochaya, K. S., 2J120
 Parus, J. L., 10J124
 Parusnikov, B. V., 6B78
 Parvari, R., 4D319
 Parveen, 2J30
 Parviainen, M. T., 9D265
 Parvin, R. M., 8D206
 Parwate, D. V., 6F60
 Paschke, U., 7J93
 Paschold, B., 4C38, 7C23
 Pasciak, J., 3B86
 Pascoe, P. J., 9D32
 Pascual Fernandez, J. M., 12B149
 Pascual Marti, M. C., 5B222, 6B146
 Pascucci, M. W., 4D253
 Pascucci, V. L., 6D71, 8D81
 Pashankov, P., 11D160
 Pashkevich, K. I., 3G17
 Pashkina, S. I., 7B64
 Pask-Hughes, R. A., 5E9
 Paskonova, E. A., 6D217
 Pasquini, C., 4B69, 7C16, 8J11, 10A9
 Passaglia, E., 9B80
 Passariello, B., 1B76
 Passath, A., 6D221
 Passay, R. B., 1D87, 7D246
 Passigato, R., 11D40
 Passing, H., 6A10
 Pastol, J. L., 11B71
 Pastor, T. J., 5C35, 10A10, 10A11, 12A7
 Pastore, T. C. M., 10G15
 Pastorelli, L., 11H60
 Pastor Garcia, A., 6D45
 Pastor Sanchez, M., 12F38
 Pastuska, G., 11C67
 Pastuszak, T., 10J23
 Patchen, L. C., 5D96
 Patchett, B. P., 10D241
 Patel, A., 4D6, 4D285
 Patel, A. A., 12E53
 Patel, B., 4B38, 4B42, 4B152, 6B42, 10B158
 Patel, B. M., 4B38, 4B42, 4B152, 6B42, 10B158
 Patel, H. H., 10F11
 Patel, K. S., 2C37, 4B136, 6B133, 10D110
 Patel, M. R., 12E53
 Patel, M. T., 11D201
 Patel, P., 6H73
 Patel, P. R., 12E53
 Patel, R. B., 12E53
 Patel, S. A., 8B39
 Pateria, M. G., 12C2
 Paterniti, J. R., jun., 9D264
 Paterson, A. H. J., 10B130
 Paterson, M. C., 7D216
 Paterson, P. J. K., 9B150
 Pathak, V. K., 5D234
 Pathak, V. N., 4E39, 11E48
 Patil, S. K., 5B91, 10B68, 11B52
 Patil, V. H., 3D251
 Patinkin, J., 8D202
 Patkar, D. N., 10B109
 Paton, R. D., 4D172
 Patonay, G., 12J102
 Patrati, Yu. V., 12B114
 Patriarca, M., 5D27
 Patriarche, G. J., 11J07, 4E42, 7E13, 8E50, 9D28, 10J145, 11J135
 Patrick, B. A., 12D184
 Patrick, J. E., 6D113
 Patrunsky, M., 3E41
 Patsalides, E., 5B224, 7A5
 Pattabiraman, T. N., 9D230
 Pattanaik, S. N., 10B68, 11B52
 Pattee, H. W., 11D138
 Patterson, D. G., 12D137
 Patterson, J. E., 7A21
 Patterson, K., 4G21
 Patterson, K. Y., 1D31
 Patterson, M. B., 12D137
 Patterson, W. L., 4D321
 Pathy, M., 2D103, 10D158
 Patton, J. G., 6D264, 6D265
 Patton, J. S., 6D181
 Patzelt, W. J., 11J71
 Paukku, R., 5G31
 Paul, D. W., 9J60
 Paul, H., 5J77
 Paul, J. L., 4D47
 Paul, K. R., 4H28, 4H77, 11H16
 Paul, L. J., 6D134
 Paul, P., 4F38
 Paulet, B., 8E54
 Paulik, F., 1B154
 Paulik, J., 1B154
 Pauliukonis, A., 2D177
 Pauliukonis, L. T., 9D52
 Paull, J. D., 6D105
 Pauls, R. E., 2D157, 4C90
 Paulsen, B. S., 3E4
 Paulsen, P. J., 12B99, 12B119
 Pauluzzi, E., 9H83, 10B73
 Paus, P. E., 6H91
 Pausch, J. B., 11J49, 12C79
 Pautov, V. G., 12J136
 Pavan, M. A., 11G1
 Pavesi, F., 6D232
 Pavlenko, S. N., 4B86
 Pavlenko, V. A., 6J45, 11J29
 Pavlik, A., 2J107
 Pavlov, A. A., 1C16
 Pavlova, L. G., 2H63
 Pavlova, S. V., 5B133
 Pavlovic, B. V., 5J96
 Pavlovic, P., 9J120
 Pavlyuchenko, V. N., 5C110
 Pawelczak, M., 10C21
 Pawlosky, R. A., 7D103
 Pawlowska, M., 6J31
 Pawlowski, N. E., 5D124
 Paxton, J. W., 4D129
 Payne, R. B., 12A10
 Payne-Wahl, K., 2F44
 Pays, M., 1D83
 Pazourek, K., 1G7
 Pazynich, V. M., 5H16, 9H17
 Pazzagli, M., 4D189, 12D140
 Pchelkin, V. A., 6B106
 Pe, W., 1D40
 Peachey, D., 7H30
 Peacock, R., 3D3
 Peakall, D. B., 4D142
 Peake, M. J., 9D32, 12D6, 12D225
 Peal, J., 2F46
 Pearson, J. D., 3D223
 Pearson, R. C., 11D121
 Pearson, S., 11D20, 12D60
 Peat, M. A., 11D43, 12D55
 Pech, J. C., 6F57
 Pecha, J., 5C80
 Pechalina, B. E., 9C1
 Pechinot, D., 4D195
 Pechova, H., 12C71
 Pecht, I., 4D319
 Pecina, R., 11C61, 12C1
 Pedemay, P., 5B69
 Pedrero Martin, M. M., 12F23
 Pedretti, C., 9F29
 Peel, D., 2D125
 Pehl, B., 4J4
 Pei, A., 2A14, 9J100, 10A20, 12D39
 Peil, A., 6J83
 Peinhardt, G., 8D53
 Peisach, M., 7B127
 Pejakov, M., 12D6, 12D225
 Pekala, R. W., 3C54
 Pekary, A. E., 10D199
 Pekic, B., 4E16
 Peleg, I., 2J2, 4J5
 Pelcran, J. C., 3D41, 7D51
 Pelic, N., 10F72, 11F35
 Pelieva, L. A., 3J76, 8B69
 Pelizzetti, E., 5C46
 Pella, P. A., 1D33
 Pellegatta, G., 5E24
 Pellerin, F., 2D115, 8E92
 Pelletier, M., 7D99
 Pelletier, M. J., 7J81
 Pelletier, M. P. J., 10D138
 Pellett, P. L., 1F1
 Pelliccia, G. A., 7B69
 Pellizzari, E. D., 2H19, 9H26, 9H27, 12H33
 Peltonen, J., 3D186
 Pelzer, J., 6H48
 Pempkowiak, J., 3H59
 Pena, J., 10D146
 Pena-Egido, M. J., 8F45
 Penberthy, L. A., 12D225
 Pendle, T. D., 3J122
 Peng, A., 5H48
 Peng, B., 9B29
 Peng, C., 6B79, 6B185
 Peng, D.-R., 11D66
 Peng, L., 8B59
 Peng, P., 6J156
 Peng, Q., 8B59
 Peng, R., 7A17
 Peng, X., 9G19
 Peng, Y., 6B74
 Penkina, G. M., 10B144
 Penlidis, A., 3J32
 Penn, R., 12J10
 Penna, N., 6H22
 Pennachia, G. M., 10D2
 Penner, G., 9F36
 Penner, J. L., 11D117
 Penney, M. D., 6D233
 Penneys, N. S., 1D153
 Pennings, E. J. M., 6D298
 Penrose, J. T., 7D187
 Pensabene, J. W., 12F15
 Pensentadler, D. F., 8H36
 Pentari, J. G., 5J177
 Penttila, I., 4D264
 Penzes, L., 11D111
 Peppone, J. A., 3J15
 Peral Fernandez, J. L., 9B45
 Perchalski, R. J., 5J133
 Perchik, O. F., 4J1
 Pere, J., 6H97
 Perego, C., 6D205
 Perel, J., 10J116
 Perelmuter, L., 7D199
 Perelroyzen, M. P., 1J23
 Perera, P., 10E6
 Perevertun, V. M., 11B105
 Perevoshchikova, V. V., 4B127
 Perez, G., 7C32
 Perez Bendito, D., 1B22, 2C23, 6F47, 10B137, 10C27, 12C22
 Perez-Bustamante, J. A., 3B99, 3F31, 3J47, 6B14, 7F88, 8F59, 10B10

- Perez-Bustamante de Monasterio, J. A., 11A24
 Perez-Bustamante, J. A., 12F38
 Perez Camino, M. C., 8F64
 Perez Garcia, M. M., 4H3, 4H16, 6H15, 6H16
 Perez Pont, M. L., 10B35
 Perez-Ruiz, T., 3B21, 4B13, 9B51
 Perez Trujillo, J. P., 3B32, 10B35
 Perfetti, G. A., 4F41, 10F61
 Pergande, M., 3D246, 9D117
 Pergatyi, A. V., 5B263
 Perinati, L., 5D162
 Perisic-Janjic, N., 3B20
 Peris Martinez, V., 3B60, 6D45, 6E56
 Perkampus, H.-H., 4C76
 Perkins, E. G., 11F35
 Per'kov, I. G., 8J86, 11B46
 Perlman, S., 7J18, 9E42
 Perlstein, P., 7C90
 Pernier, D., 12H22
 Perrett, D., 3D77
 Perrier, D., 7D47
 Ferrin, J.-L., 11F40
 Perrino, C., 11H26
 Perrone, P. A., 12D211
 Perry, L. A., 4D196
 Perry, M. B., 5C77, 11J100
 Perry, N. B., 9C37
 Perry, R., 6H103, 6H104, 7H76, 8H73
 Ferry, R. W., 9B126
 Pershina, L. Z., 9F50
 Persijn, J. P., 12D242
 Personov, R. I., 6J144
 Persson, B.-A., 7D156
 Persson, P., 10D26
 Pertsovskii, A. L., 5H35, 12J2
 Pesakhovich, L. V., 6E2
 Pesavento, M., 2B6, 5B209, 11B121
 Pesce, A. J., 11D35
 Pesce, M. A., 4D10, 9D21
 Pescheux, F., 11H76
 Peshenko, V. P., 2D35
 Pessara, W., 2J105
 Pessenda, L. C. R., 3H34
 Pessoney, G. F., 12D121
 Pesti, G. M., 4D200
 Pestka, S., 4D262
 Petchev, M., 12D114
 Peter, F., 4D175
 Peterfreund, L. A., 12A9
 Peterkova, L., 10F40
 Peterkova, M., 4D120
 Peters, A., 6D64
 Peters, B. J., 8D123
 Peters, C. J., 8H73
 Peters, D. C., 3J83
 Peters, F., 5D211
 Peters, G. E., 11D230
 Peters, H., 1F2
 Peters, H. J., 10D245
 Peters, J. A., 5A13
 Peters, J. G. P., 12D93
 Peters, K., 10F57
 Peters, T. J., 1D94, 9D244, 9J14, 10D11
 Peters, T. L., 5J55
 Petersen, W., 9J72
 Peterson, J. I., 9D31
 Peterson, J. R., 7J122
 Peterson, L. R., 6D63
 Peterson, R. J., 3D218
 Peterson, S. H., 5B30
 Peterson, W., 1J79
 Petiot, J., 5E58
 Petit, F., 6D275
 Petit, R., 1J87
 Petitclerc, C., 12D238
 Petitjean, M., 8F8
 Petichna, L. I., 3E45
 Petrakis, L., 7C64, 9C64
 Petranek, J., 1J104
 Petren, S., 10D205
 Petrenchuk, O. P., 10H43
 Petrenko, N. V., 6F24
 Petrenko, O. N., 11C28
 Petrenko, V. D., 3B96
 Petrenko, V. V., 3E51, 11E52
 Petrescu, I., 9J39
 Petri, S., 5C30
 Petrikon, Yu. V., 6J157
 Petrocco, G., 5B27, 8J7
 Petroff, N., 9C51
 Petronio, B. M., 11J37
 Petropol'skaya, N. A., 10B95
 Petrosyan, M. S., 7H6
 Petrov, A. A., 6B29, 7B139, 10B6, 10B93, 11J4, 12B13
 Petrov, B. I., 4B59, 9A11
 Petrov, I. P., 6J151
 Petrova, A. N., 4D106
 Petrova, E. N., 5D255
 Petrova, N. I., 1B166, 10B177
 Petrova, N. V., 10C69
 Petrova, T. V., 4B61, 4B116
 Petrovic, J. A., 2D130, 11D148
 Petrovic, S. M., 4E16, 8D130, 11D148
 Petrovskaya, L. I., 7B88
 Petrucci, B., 1D135
 Petrucci, F., 8B83, 8B118
 Petrucci, S., 1J3
 Petrukhin, O. M., 1J102, 4J165, 9J127, 11B6, 12B171
 Petrunin, A. N., 11B30
 Petrucci, R. F., 9D60
 Pets, L., 9H85
 Petsev, N., 10J73, 10J74
 Petters, I., 3D44, 11D66
 Pettersson, A., 7D175
 Pettersson, B. M., 11D96
 Pettersson, C., 7C24
 Pettersson, S., 2H40
 Pettigrew, D. W., 10J55
 Pettit, B. R., 9D169
 Pettit, G. R., 9D6
 Petty, J. D., 4J53
 Petty, R. L., 6H64
 Petzold, D. R., 1E39
 Peuckert, W., 6F75
 Peyrin, L., 12D155
 Peyronel, G., 6C14
 Peyton, A. L., 8D111
 Pezzola, D., 11F20
 Pezzoli, C., 10D114
 Pezzuto, J. M., 10E16
 Pfadenhauer, E. H., 3D78
 Pfaffli, P., 3H19
 Pfandl, A., 4E5
 Pfannhauser, W., 6J17
 Pfannkoch, E., 10D194
 Pfeiffer, P. E., 12H94
 Pfefferli, P. W., 7C101
 Pfeifer, G., 4G29
 Pfeiffer, C. D., 7J34
 Pfeiffer, E. F., 5D194
 Pfeiffer, R., 1G8
 Pfirrmann, R. W., 2E41
 Pfeiler, K., 9D67, 11D39, 11D73
 Pfeiderer, G., 8D249
 Pfeiler, H., 4D211
 Pfluger, C. E., 12J94
 Pflugmacher, J., 9G23
 Pfeiffer, G., 5B33, 10B74
 Phal, D. G., 10B68
 Phan, A. P. H., 5D256
 Phan Thu Huong, 11J119
 Pharr, D. M., 10G8
 Phatak, A., 9C4
 Pfeiffer Madsen, P., 6H58
 Phelan, M. A., 3D193
 Phelps, J. B., 3D214
 Philianos, S. M., 1F4
 Phillips, C. S. G., 2J45
 Phillips, D. R., 12E29
 Phillips, F. C., 11D136
 Phillips, G., 4J157
 Phillips, G. F., 2E2
 Phillips, J. B., 6J75
 Phillips, J. H., 6H99
 Phillips, J. M., jun., 11D56
 Phillips, T. D., 8F30
 Phillips, W. A., 12D40
 Phipps, J. A., 8D50
 Phiri, A., 9G24
 Phull, M., 7B71
 Piantadosi, C., 4D168
 Piao, Z., 2A14, 9J100, 10A20
 Picard-Maureau, A., 8D1
 Picart, D., 7C51
 Picaglia, R., 6G19
 Piccardi, G., 5H70
 Pichkov, V. N., 4B185
 Pichl, I., 1G7
 Pichon, R., 11D64
 Pichot, J., 12D194
 Pichugina, A. P., 9H9, 11B169
 Pick, J., 7D130
 Pickering, N. J., 10C16
 Pickersgill, R., 1D61, 7D158, 10D90
 Pickert, A., 4D154
 Pickford, C. J., 5J99, 12B134
 Pidel, A. R., 7F22
 Piekacz, H., 5C93
 Piekarska, K., 4D234
 Pienkowski, J. J., 12F41
 Pieper, R., 9E1
 Piepmeyer, E. H., 6B38
 Piepponen, S., 5F40
 Pierce, C. E., 10D199
 Pierce, T. B., 1J14, 2J99, 6J15, 6J16
 Pieroni de Domancich, O. I., 11C25
 Pierotti, J. A., 11D225
 Pierpont, G. L., 4D158
 Pierre, A., 6F49
 Pierreux, A., 5A30
 Pierson, D., 6D92
 Pierucci, A., 3D273
 Fiesch, E., 11H11
 Fietek, W., 6B23
 Pieters, H. J., 2A18, 9J95
 Pietrogrande, M. C., 12E16
 Pietrzyk, D. J., 8D163, 12B2
 Pietsch, H.-P., 11F24
 Pietta, P., 1D218, 2D74, 7D203
 Pifferi, G., 2E37
 Pigeon-Gosselin, M., 5J119
 Piggott, J. R., 11F49B
 Pignata, C., 11D206
 Pignedoli, A., 6C14
 Pignon, T., 1D67
 Pigozzi, G., 1B60
 Pijpers, F. W., 10A13
 Pike, A. W., 11D144
 Pikhitelev, A. I., 10B112
 Pikna, M., 9J120
 Pikul, J., 6F37
 Pilecka, T., 4D234
 Pilipenko, A. T., 3B71, 3H35, 4B71, 4B179, 4D225, 5B34, 6A17, 6B94, 6H53, 6H76, 8B27, 8H38, 10B92, 10B111, 11H74, 12B114
 Pilipenko, L. E., 4B163
 Pilipuk, Ya. S., 3B35, 4B48
 Pilikiewicz, F. G., 6D67
 Pillai, O. G. N., 5F42
 Pillay, A. E., 11B9
 Pillinger, C. T., 9B88
 Pilnik, W., 5F35
 Pilo, A., 1D88, 2D180
 Pilz, U., 8H70
 Pimenov, V. G., 10B81
 Pimminger, M., 1J91, 4B193, 7B10, 11B101, 12B91
 Pimpl, M., 5H57, 5H88
 Pinaeva, S. G., 4B141
 Pindar, A. G., 6C48
 Pinedo, H. M., 2E46
 Ping, L., 4D59
 Pinigina, I. A., 8H27
 Pinilla, J. M., 3B77, 3B81, 5B182, 10B106
 Pinkston, J. D., 7J70, 12J123
 Pinnick, R. G., 11J149
 Pino Perez, F., 1B133, 2A2, 5B219, 9B36
 Pinte, G., 10B61
 Pinte, O., 8C59
 Pinter, P. C., 6D79
 Pinyazhko, B. O., 3E45
 Pinzauti, S., 3E42, 10J131
 Piotrovskii, V. K., 2D94, 7D77, 12D88
 Piotrowska, H., 5E27
 Piotrowski, E. G., 12H94
 Pirastru, M. G., 12D208
 Piringer, O., 9J64
 Pirkle, H., 11D64
 Pirkle, W. H., 5C36, 12C33
 Pirl, J. N., 5D30
 Piro, M. A., 2D180
 Pirogova, I. D., 7C50
 Pironkov, S., 5H13
 Pirt, C. A., 10H68
 Pirzada, I. M., 2C9
 Pishinko, G. N., 10B92
 Pistor, K., 9D206
 Pitkanen, A., 10D259
 Pitkanen, V., 8J116
 Pitkin, D. H., 11D51
 Pitotti, A., 11D72
 Pitre, K. S., 3B13, 3B56, 6B83
 Pitrebois, L., 12H80
 Pitt, T. J., 4J47
 Pittman, R. A., 9C75
 Pittner, F., 6D310
 Pitts, J. N., jun., 9H10
 Pivnichny, J. V., 8D82
 Pivnitskii, K. K., 1D103
 Piwowarska, B., 2A8
 Pizzolante, J. M., 6D191, 7D193, 9D215
 Pla, R. R., 4B124
 Place, J., 10D210
 Place, J. D., 10D71, 10D72
 Placek, K., 2C62
 Plaisted, S. M., 8D118
 Plakunov, I., 8D111
 Plana Llevat, F., 12H13
 Planitz-Penno, S., 5A34
 Plapp, B. V., 9D187
 Plastun, S. N., 4B197
 Platbrood, G., 5A30
 Platoni, C. R., 9C87
 Platt, D., 9D83
 Platt, D. J., 5D95
 Platt, U., 12H22
 Plattner, R. D., 1E9, 2C22, 7G3, 9C89
 Platz, R. M., 11D9
 Plavsic, F., 5D59
 Pleban, P. A., 4D38
 Pledger, D. R., 1D157, 6D306
 Plein, E. M., 12E6
 Pleshakova, R. P., 3B16
 Pletnev, I. V., 9B23
 Plickova, O., 5B49
 Pliner, Yu. L., 10B148
 Plomp, A., 10J152
 Plotkin, E. V., 12J164
 Plotnikov, R. I., 2J67, 9J69
 Plumley, F. G., 5D198
 Pluscec, J., 11D245
 Pober, H., 7C87
 Pochard, M. F., 7D95
 Pochini, A., 5J58
 Pocklington, R., 5H76
 Podchaynova, V. N., 5B70
 Podkolzin, S. N., 11J116
 Podkovyrin, A. I., 3B96
 Podkovyrina, T. A., 1C15
 Podolj, M., 3D107
 Podowski, A. A., 11G35
 Podrazky, V., 10D251
 Podzolk, L. G., 4B139
 Poege, A. W., 9D209
 Poelmann, E., 10D116
 Poepel, M. O., 10F14
 Poetter, U., 11D209
 Pofradli, L. G., 9J83
 Poggi, G., 4D64, 8H14
 Pogodina, L. I., 2E48

- Pogson, C. I., 3D252
 Pohl, C. A., 2C17
 Pohl, J., 3D265
 Pohl, L. R., 3D254
 Pohland, A. E., 10G4
 Pohloudek-Fabini, R., 3E6, 8E17
 Poindexter, J. S., 4D155
 Poirier, M.-A., 1C22, 9C65
 Pokhilo, N. D., 9D110
 Poklis, A., 5D63
 Pokorska, Z., 10C11
 Pokorski, R., 5J47
 Pokrowsky, P., 2B66
 Pokryshchenko, V. I., 11J72
 Pokushalova, T. V., 9D110
 Pol, A., 1D150
 Polack, F., 1J61
 Polak, J., 5G33, 5G34, 8H62, 9B81, 11G31
 Polataiko, R. I., 8C27
 Polavarapu, P. L., 5J120, 8J73, 10C18
 Polcaro, C., 7C32
 Polevaya, O. Yu., 3D53
 Polianova, M., 4G15
 Polimeni, S., 1D162
 Polishchuk, O. M., 5H95
 Politi, L., 3J33
 Poljakova, K., 5B139
 Polkowska-Motrenko, H., 8H46
 Poll, J. K., 7F55
 Poll, L., 9F42
 Pollard, A., 9D1
 Pollard, B. D., 9A25, 12C18
 Pollard, M., 12H8
 Pollard-Walker, S., 9E62
 Pollinger, P., 7J104
 Polo, C., 10F64
 Polo, M. I., 7F45, 7F46
 Polo Diez, L. M., 12B149
 Polonio, J. B., 5J71, 8J79
 Polonsky, J., 10C73
 Polsky-Cynkin, R., 4J9
 Polta, J. A., 4D220
 Poluektov, N. S., 5B101, 12B69
 Polyak, B., 7D178
 Polyak, N. A., 5B22
 Polyakov, Ya. S., 5J109
 Polyakov, Yu. N., 10B104
 Polyakova, A. A., 8C53
 Polyakova, V. V., 5B48
 Polyanskiy, V. A., 10H48
 Pomazanov, V. V., 5D216, 8D9
 Pombo, M., 10D146
 Pomerantseva, E. G., 11C76
 Pometun, E. A., 9B130
 Pommer, U., 7D244
 Pommier, F., 6D65, 8D69
 Pomoell, U. M., 7D149, 7D149
 Ponchel, P., 12C67
 Poniewaz, M., 7J51
 Ponnampalam, R., 1F17
 Ponomarev, A. S., 6J142
 Ponoran, I., 12C55
 Pons, S., 3E31, 4E50
 Ponzio, F., 6D205
 Pool, C. W., 3D164
 Poole, C. F., 2J53, 3J48, 3J60, 3J61, 6J60, 6J87, 7J53, 7J60, 8C39, 11J56, 12J66
 Poole, G. M., 8H92
 Pooley, F. D., 11H8
 Poonam, 8F5
 Poore, C. M. B., 5D135, 9D130
 Pop, F., 7H18
 Popa, E., 4E49
 Popandopulo, Yu. I., 1B125, 12B185
 Pope, L., 2J128
 Popescu, G., 8C70
 Popescu, R., 4J66, 7H18
 Popivchuk, D. Z., 3E50
 Popken, A. M., 5F37
 Popko, D., 10C49
 Popkov, V. A., 2D1
 Popkov, Yu. A., 3B9, 9J126
 Popl, M., 5G30, 5H83, 8J19, 10F1
 Poponova, R. V., 3B48
 Popov, A. I., 9B135
 Popov, A. N., 7J134, 7J135
 Popov, D. M., 4E54, 8E18, 8E21, 11E12
 Popov, S., 8D105
 Popov, V. K., 4B197
 Popov, Yu. S., 4B94
 Popova, O. A., 4J100
 Popova, S., 5J85
 Popova, T. P., 4J62
 Popova, V. I., 3E35, 5E56
 Popovic, J., 10D104
 Popovich, G. M., 3B49
 Popovici, I., 4E43, 4E45, 8E59
 Popovskaya, N. A., 1B127, 6B162
 Popp, P., 4H9, 7C14, 7J69, 9H21, 10J77
 Poppe, H., 5J39, 7J32
 Popper, J., 1B61
 Popp-Ginsbach, H., 10F24
 Popp-Snijders, C., 2D131, 6D155
 Pore, J., 8C68
 Porsch, B., 10J21
 Porstmann, B., 6D254
 Porstmann, T., 6D254
 Porter, B. L., 5D32
 Porter, D. C., 5F8
 Porter, D. G., 7C18
 Porter, D. H., 6F50
 Porter, J. K., 1E9
 Porter, L. C., 1J76
 Porter, M. D., 8J119, 12J169
 Porter, Q. N., 11C19
 Porter, W. R., 4D95
 Portnaya, L. V., 10B162
 Portoukalian, J., 3D212
 Portretnyi, V. P., 11H45
 Portych, J., 9E54
 Porumb, H., 9J39
 Porumb, T., 9J39
 Porwal, N. K., 4B97
 Posada-Retana, A., 5D108
 Posey, B. L., 5D45, 11D41
 Pospisil, P., 6H84
 Pospisil, T., 12S156
 Possagno, E., 7C32
 Possanzini, M., 6H8, 11H13, 11H26
 Post, J. E., 8H9
 Postaire, E., 5E58
 Postanogova, R. M., 4B122
 Postma, G. J., 2E46
 Postnova, I. V., 5B24
 Postorino, E., 5F44
 Potaman, V. N., 10D231
 Potapov, A. B., 6J115
 Potapov, M. A., 4B10, 4J144
 Potapov, V. I., 7A4
 Potapova, V. G., 9B191
 Poteat, T. L., 4J7
 Potgieter, G. M., 8D240
 Potsepkina, R. N., 4C33
 Potter, H. C., 4D149
 Potter, P. E., 9D167
 Potts, P. J., 5B140, 5J149, 8B66
 Poulet, P., 3J73
 Poullisse, H. N. J., 2A11, 2A12
 Pounds, C. A., 1D1
 Poupard, D., 3B85
 Pourfarzaneh, M., 1D54
 Pouw-Arnou, M., 12D242
 Pouzar, V., 9D53
 Poveda, T., 12F35
 Povel'eva, Z. N., 6E60
 Povsis, T. J., 8J122
 Powell, C. J., 8H10
 Powell, H. K. J., 5J162
 Powell, J. R., 11D88
 Powell, L. J., 12B99
 Powell, M. L., 6D113
 Powell, S. C., 4D325, 5J23
 Power, S. D., 8D217
 Powers, J. C., 12D243
 Powers, P. A., 6D131, 6D132
 Powis, G., 11D32
 Powley, C. R., 3B42, 7B39
 Poy, F., 6J74
 Poynton, H. J., 8C60
 Poyton, R. O., 8D217
 Pozhidaev, V. M., 4H31
 Pozhidaev, Yu. N., 12B43
 Pozsgai, I., 9J76
 Pozza, G., 4D275
 Pozzoli, L., 5H67
 Prabhudesai, J. S., 11E17, 11E34
 Prack, E. R., 4J123
 Pradeau, D., 5E1
 Pradelles, P., 10D55
 Pradier, F., 5E1
 Prakash, O., 2J88, 10B108, 10C43
 Prakash, R., 2C74, 10B142
 Pramauro, E., 5C46
 Prandi, C., 11H2
 Pranger, L. J., 7H12
 Prasad, A. R. K. V., 10B103
 Prasad, A. S., 6D34
 Prasad, B. B., 10C28
 Prasad, C. A. K., 6F19
 Prasad, M. S., 4B199
 Prasad, R. K., 4C103
 Prasad, U. V., 10F20
 Prasad, V. K., 7D90
 Prater, T. J., 5C71
 Prati, R., 8E9
 Pratley, J. E., 2D46
 Pratt, K. C., 11C44
 Pravica, M., 10B65
 Prazeres, M. A., 7E15
 Prazska, M., 5H53
 Pre, J., 5D252
 Predecki, P. K., 11A6B
 Pregliasco, F., 11D110
 Preier, H. M., 2J87, 12H18
 Preindl, S., 2D165
 Preisler, H., 12D71
 Preiss, I. L., 4B192
 Preiss, R., 1D60
 Premedas, A., 6J50
 Premel-Cabie, A., 4D111
 Prenant, C., 9C13
 Prencipe, L., 1D124, 2D170
 Prentice, D. A., 3D190
 Preobrazhenskaya, L. D., 4B92, 5B119, 5B120
 Presant, C. A., 5D234
 Prescher, K. E., 11H25
 Prescott, B. E., 4B142
 Prescott, M. C., 12C15
 Presecan, E., 9J39
 Pressac, D., 7D191
 Preston, B., 5J102
 Preston, C. M., 1G16
 Preston, M. A., 11D117
 Preston, M. R., 2D218, 2H54
 Preston, T., 1B83, 10D39
 Prestwich, W. V., 5H51, 9A37
 Preti, C., 7C35
 Pretorius, H. E., 2F41
 Pretorius, V., 2J45, 2J47, 6J66, 6J97, 11J54, 12J58
 Pretsch, E., 10J132, 12J154
 Preuss, A., 8F11
 Prey, T., 2E8
 Price, B., 5B276
 Price, C. P., 2D76, 4D3, 4D69, 4D150, 4D243, 5D61, 8D106
 Price, H. A., 8D93
 Price, J. C., 8F39
 Price, J. D. E., 4D119
 Price, K. R., 10C23
 Price, R. M., 9D134
 Price, S. J., 9D179
 Price, W. J., 8D24
 Price, W. N., 11D258B
 Prichard, H. M., 10H11
 Prichard, P. J., 7D92
 Pridgar, E. M., 7D236
 Priebe, S. R., 6C15
 Prigent, A.-F., 4D316
 Priha, E., 12C17
 Prihoda, J., 5B260, 10B62
 Prikryl, F., 1C10
 Prikryl, Z., 10G16
 Prikrylova, K., 6A9
 Primak, A. P., 2G19
 Prinoth, M., 9D69
 Printsmann, E. A., 2C26
 Priolkar, S. R. S., 1E31
 Pristoupil, T. I., 7D212
 Prisyazhnyuk, A. I., 10B85
 Pritchard, C. A., 12B72
 Pritchard, E., 2C51, 8C63, 10H68, 10H69
 Pritchard, K. A., jun., 6D242
 Pritchard, M. W., 10D17
 Privalova, P. A., 4B94
 Privett, O. S., 11D136
 Prober, C. G., 7D52, 7D53
 Prochazka, M., 9J57
 Prochazka, Z., 4D151, 10J59
 Prochazkova, L., 3H55
 Proctor, A., 6B40
 Proctor, B. L., 7J98
 Proctor, C. J., 7J99
 Prodan, E. A., 7B88
 Prodi, V., 10J150
 Proell, F., 1E2, 7E2
 Proffitt, R. T., 5D234
 Profili, M., 4E9, 5E14
 Proft, G., 12H82
 Prognon, P., 5E58
 Proia, A. D., 4D334
 Proietti, G., 11E44
 Proinov, I., 9J39
 Prokhorova, G. V., 3B100, 4B166
 Prokof'ev, A. K., 4H49
 Prokopenko, N. A., 6J86
 Prokopetz, A., 10D113
 Prokop'ev, V. M., 4B94
 Prokoviev, D., 3J66
 Proksa, B., 1E38, 4E27, 4E31, 6E8
 Promper, E., 6C52
 Pronin, V. A., 1B97
 Prosek, M., 2D54, 6D62, 9E4, 12E51
 Proska, B., 1E27
 Prosser, B. C., 5E43
 Prostakov, N. S., 6C8
 Prosyantov, N. N., 8C45, 8C46
 Protasov, S. P., 2J86
 Protat, M. F., 7D14
 Provder, T., 5C113
 Provencher, S. W., 6J119
 Provenzano, M. R., 8H4
 Provido, H. S., 4D221
 Prudnikov, E. D., 9B160, 10A14
 Prue, D. G., 1E40
 Prueksaritanont, T., 6D208, 11D105
 Prugo, D., 11C78
 Pruszkowska, E., 9B92
 Pruzinec, J., 9B120
 Pryakhina, V. M., 12B96
 Przasnyski, M., 9D188
 Przyborowski, L., 8E30
 Przybylski, M., 1J92
 Przyjazny, A., 7C41
 Przyklenk, M., 11C64
 Psaltira, S. A., 5H78
 Psarrou, E., 11D189
 Pshetakovskaya, N. A., 1B94
 Psota, A., 4F8
 Ptushkina, M. N., 4B165, 6B113
 Pu, F. S., 6D208
 Pucci, P., 5D180
 Puchalowiec, U., 5G19
 Puchkova, N. A., 2C26
 Pudek, M. R., 6D60
 Puderbach, H., 7C66
 Pudil, F., 4F57
 Puerschei, S., 9D251
 Puglisi, C. V., 2D77, 4D123, 7D41
 Pui, D. Y. H., 11J3
 Pulatov, D. D., 5B50
 Pulidori, F., 9J7
 Pullen, R. H., 12D103
 Puma, B. J., 4F34, 7F44, 12G7
 Puncoccharova, J., 3C38

- Punger, G. N., 9C88
Pungor, E., 1J99, 3J105, 4J174, 5A41, 5J184, 7J8, 7J129, 10D248, 12A18
Punthanapated, U., 4F22, 7F80
Puphal, K. W., 8B57
Purcell, J. M., 10F56
Purdue, G. E., 1B4, 2C41
Purdy, W. C., 5D176, 12J42
Puri, B. K., 2B78, 3B92, 5B17, 5B255, 7B120, 8B124, 9B40, 9B140, 9B162, 9B169, 9B173, 11B126, 12B49, 12B152, 12B164
Purnanand, 12C24
Purnell, A. L., 7B143
Purnell, J. H., 6J63, 12C9
Pushkina, L. A., 2E21
Pustovar, P. Ya., 8D226
Puthraya, K. H., 12D200
Putnins, J., 2C75, 11B42, 11B80
Puttemans, F., 9H51
Puttemans, M. L., 2F13
Puttins, U., 2C42, 2C43
Puumalainen, P., 5J73, 5J74
Puxbaum, H., 12H7, 12H9
Puzanowska-Tarasiewicz, H., 1B149, 1E22, 6B56
Puzo, G., 6C10
Puzryevich, A. G., 12J79
Pyasetskii, V. B., 7C12
Pyatnitskii, I. V., 3B35, 3B49, 3B90, 4B48, 4B141, 5B97, 5H84, 8B18, 9B77, 11B10
Pyle, J. L., 7C49
Pylypiw, H. M., jun., 12C21
Pysker, T. J., 8D16
Pyy, L., 5H24, 12D41
Qi, D., 5H14, 6J185
Qi, G., 12B40
Qi, M., 4B104
Qi, Q., 1B132, 3H74, 5B15
Qi, S., 3J4
Qi, W., 5B16, 6B72, 9B103
Qian, A., 5G106
Qian, O., 7G12
Qian, S., 8E72
Qian, T., 2A1, 5A5
Qian, X., 9J136
Qiang, W., 6H61
Qiao, W., 12J167
Qin, G., 8B89, 10B71
Qiu, G., 5B53
Qiu, J., 7B100
Qiu, S., 7B68
Qiu, X., 3G6, 4G13, 6G6
Qiu, Z. Y., 7J49
Qu, H., 9G19
Qu, Y. M., 9B31
Quant, F. R., 2H7
Quantrill, D., 8J9
Quaranta, H. O., 10F34
Quareshi, M. A., 10C43
Quarry, M. A., 10J43, 10J44
Quatranio, R. S., 4D148
Quattrocchi, F., 4D66
Que Hee, S. S., 9D261
Quehen, S., 10D106
Queiraza, G., 10H53
Quellmalz, K., 4C89
Quentin, K. E., 9H63
Quercia, G. T., 2D56
Quick, J., 3E47
Quicke, G. V., 11F5
Quinn, R. P., 5D102
Quirin, K.-W., 8D126
Quirk, J. G., 7D49, 10D139
Qureshi, I. H., 5F43
Qureshi, M., 5J43, 8G10, 9J44
Qureshi, M. A., 4B27, 11B115
Qureshi, M. Y., 9D149
Qureshi, P. M., 2A5, 5J43, 6C28, 8G10
Qureshi, S. Z., 5D182, 8C16
Raab, G. M., 4D13
Raab, M., 8B8
Raabo, E., 8D233
Rabada Baiges, J., 3F29
Rabaey, M., 10D189
Rabe, T., 12D235
Rabek, V., 7C21
Rabel, F. M., 6J35
Raber, J., 5H25
Rabier, D., 6D275
Rabinowitz, R., 9A18
Rachaman, E. S., 5D240
Rachkov, G. M., 10B112
Rachlin, J. R., 9D196
Racicot, L. D., 4F35
Racker, E., 8D237
Rackley, R. J., 11D242
Rackstraw, A. J., 4J85B
Racz, W. J., 5D109
Rada, R. G., 9H54
Radaev, V. N., 4H60, 11B4
Radchenko, A. F., 7C7
Radchuk, G. V., 5B55
Radda, G. K., 5D2
Radecka, A., 10H95
Radeke, H., 5D195
Radhakrishna, J., 4B95
Radhakrishnamurty, C., 4C32, 5B165, 10C29
Radhamma, M. P., 9A17
Radic, N., 10J134, 11C78
Radin, N. S., 3J49
Radke, G., 12D235
Radola, B. J., 6F62
Radosavljevic, S., 3B20
Radoszewski, T., 5B192
Radow, A., 8B92
Radziemski, L. J., 3H18, 3J79
Radzik, D. M., 1D29, 5D65
Radziuk, B., 7J82
Rabel, M. A., 12D116
Raedecker, C. E., 5D158
Raensch, K. D., 8D89
Raevskaya, V. V., 6B158
Rafel, J., 10J19
Rafferty, B., 2D183
Rafter, J., 2D123
Rafter, P. T., 3B89
Raftogianis, L., 12D59
Ragelisi, A. P., 4G25
Raggi, M. A., 1E42, 3E30
Raghuath, M., 5D184
Raghuveerat, D., 12E57
Raghuveer, S., 4E24
Ragnarsson, U., 4E29
Raha, C. R., 4C44
Rahim, S., 10D246
Rahim, S. A., 6B110, 8B77, 10B133
Rahimi, P., 9C65
Rahman, A., 11D246
Rahman, M., 6H52
Rahmani, R., 8D40
Rahn, G. S., 11D102
Rai, K. B., 9D230
Rai, S. N., 7B71
Rai, U. S., 10B41
Raichvarg, D., 1A7, 3D102
Raich, M., 4B21, 10B19
Rainer, F., 4D31
Raisanen, J., 5B10
Raisanen, S., 9D36
Raisys, V. A., 4A5, 4D269, 10D84
Raith, B., 4H53
Rahtila, A.-M., 4F5
Raj, B., 7D233
Rajakyla, E., 7F30
Rajalakshmi, S., 5F56
Rajani, 9B73, 10B39
Rajapakse, L., 12B139
Rajchgot, P., 7D52
Rajec, P., 3J41
Rajeshwar, K., 7C53
Rajeswari, S., 9H60
Rajkovic, M., 12B90
Rajkowski, K. M., 1D114
Rajkumar, K., 9G14
Rajput, A. R., 6C13
Rajput, R. P. S., 12B169
Raju, I. R. K., 6A5
Raju, N. V. S., 10B126
Raju, S. G., 4D160
Rakeimann, U. V., 3H43
Rakha, T. H., 1B78, 4B117
Rakhimov, Kh. R., 4B187
Rakhimova, S. R., 5B85
Rakhman'ko, E. M., 11J124
Rakhmanov, A., 4B11
Rakhmatullae, K., 4B109
Rakita, L., 6D109
Raldugina, I. I., 1C36
Ralston, S. H., 4D44
Ram, P. R., 10B41
Ram, R. S., 2J88
Rama, T. V., 6E12
Rama Bhat, S., 7H50
Ramachandran, M., 9D106
Ramachandran, T. R., 12J77
Ramos, K., 7B79
Ramaiah, A., 2D227
Raman, P., 1D206
Ramakrishna, T. V., 1B150, 2B80, 7B96, 11B83, 11B151
Ramakrishna, V. V., 10B68
Raman, S., 7B48
Ramanathan, S., 10G26
Ramanaukas, E., 4A30, 6B138
Ramanuelina, A. R. P., 9D119
Ramanujam, M., 6C29
Ramappa, P. G., 3F23, 8E47
Ramarao, C. S., 3D251
Ramasamy, S. M., 3C40, 9C7
Ramasastri, B. V., 1D134
Ramaswamy, V., 2D117, 11C41
Rambohul, E., 5D61
Ramdahl, T., 5H33
Ramdane, D., 12J133
Ramendik, G. I., 8J112, 9B91, 9J110, 9J113
Ramirez, E., 5B258
Ramirez, I., 8D116
Ramirez Salcedo, J., 4D245
Ramos Ramos, G., 3B91, 4A19
Ramjit, H. G., 11D163
Ramkovich, V. V., 12B39
Rammell, C. G., 3D85
Rammeloo, T., 5D203
Rammuraine, M. L., 11D130
Rampazzo, G., 1B153
Rampazzo, P., 5D162
Ramsden, D. B., 11D172
Ramsden, H., 8D186, 10D177
Ramsey, C. A., 10J7
Ramsey, M. H., 7J87
Ramsey, T. H., 10B83
Ramseyer, G. O., 5D12, 12D20
Ramus, T. L., 5D7
Ramwell, P. W., 9A1B
Rand, E. M., 2J49
Rand, R. N., 4D253
Randazzo, G., 8D156, 11G6
Randinitis, E. J., 12D104
Randoux, A., 5D181
Randrianalimanana, E., 4C48
Rane, A., 11D66
Ranfft, K., 6F52
Rang, S., 12C8
Rangamannar, B., 1B23, 1B50, 8B48, 8B50, 8B51
Rangappa, K. S., 4B100
Rangaswamy, 7D174
Rangaswamy, J. R., 10G24
Ranny, M., 2D144, 7F92
Rantanen, J., 6A12
Rao, A. P., 8B51
Rao, A. L. J., 1B36, 5B17, 9B169
Rao, B. G., 10C37, 11C22
Rao, B. S. N., 5D184
Rao, B. S. P., 3J89
Rao, B. V., 9B153
Rao, E. V., 1E21
Rao, G. N., 2J124
Rao, G. P., 5C84, 5J188, 7B12, 7B109
Rao, G. R., 2E44, 4E24, 6A5
Rao, G. S., 4C32, 5B165
Rao, G. S. R., 9B187
Rao, I. S. S., 5A18
Rao, K. A., 1B23, 1B51, 7C22, 8B48, 8B50, 8B51, 9C16, 9C18
Rao, K. E., 6C20, 10C33, 12C27
Rao, K. G., 4E41
Rao, M., 3D8
Rao, M. S. P., 1B51, 7C22, 9C16, 9C18
Rao, M. V., 3F7, 4E63, 6F19, 10F21
Rao, N. G. S., 7D37, 7D38
Rao, N. V. S., 6B123
Rao, P., 1D193
Rao, P. N., 6E12
Rao, P. V., 11F28
Rao, P. V. V. P., 6G32
Rao, R. S., 6E12
Rao, S. P., 10B87
Rao, T. P., 2B80, 11J138
Rao, V. H., 10B126
Rao, V. K., 4B91
Rao, V. K. M., 11D233
Rao, V. R. S., 3B66, 11C12
Rao, V. V. K. R., 3J89
Rao, Y. P., 6A5
Raot, K. N., 1B20, 2B30, 2B81, 5B44
Raot, S., 1B20, 2B30, 2B81
Raos, D., 7B144
Raper, E. S., 8C47
Raponi, G., 7D143, 12D141
Rapoport, L. M., 7B46
Rapp, F. L., 4F74
Rapp, U., 4D232
Rappaport, S. M., 2H22, 4H42
Rappe, C., 11H3, 12C38
Raptis, S. E., 4H2, 5C9
Rasch, E. M., 11D215
Rashed, A., 11E24
Rashid, M. A., 10D187
Raskin, P., 12D206
Rasmussen, J. M., 6D251
Rasmussen, K. E., 5E13, 9E39
Rasmussen, K. W., 10D117
Rasmussen, P., 3F19
Rasmussen, R. A., 4H34
Rasorahona, J., 4G5
Rasor, J. L., 4D258
Rasori, I., 8C68
Rasper, J., 9D85
Rasschepkina, N. A., 1B40
Rastogi, R. K., 5B91
Rastogi, S. N., 6B89, 10B70, 10E31
Rastyannikov, E. G., 8H19
Raszewski, T., 2C44, 2C45
Ratajczak, A., 2A8, 3C41
Ratchik, E., 3H78
Ratcliffe, D. B., 9B126
Ratge, D., 8D152
Rathi, B. N., 10B49
Rathi, M. S., 6J50
Rathinavelu, A., 10F10
Rathnam, P., 12D178
Rathnawathie, M., 2F38
Rathod, P. K., 4D303
Rathore, H. S., 3H69, 5J43
Ratnaik, R. N., 9D30
Ratnaik, S., 9D55
Ratner, S., 8D257
Ratonyi, I., 10D95
Rattay, S., 8J48
Rattenberger, E., 11D61
Rattray, J. B. M., 3D131
Ratzliff, E. H., 12J103
Rau, B., 12E4
Rau, J. A., 11H14
Rauch, P., 7D235
Raue, F., 3D171
Rauio, R. P., 2D139
Rauret, G., 8H50
Rausch, M. D., 5C52, 5C62
Rauscher, H., 6J17
Rautala, P., 1B152
Rauw, G., 9D66
Ravenscroft, P. J., 11D90
Raverdino, V., 4H5
Ravichandran, K., 4B119, 7J137
Ravikovich, V. M., 9C2

- Rawal, N., 9D43
 Rawat, J. P., 6C19
 Rawat, N. S., 5B60, 7B15
 Rawat, R., 12E34
 Rawdon, M. G., 9J65, 12J71
 Rawlings, N. C., 4D191
 Rawski, V., 8D63
 Ray, A., 3D232
 Ray, J. E., 8D49
 Ray, U. S., 4B65
 Raya-Saro, T., 2C23, 12C22
 Rayborn, G. H., jun., 6J158
 Rayburn, B. K., 6D54
 Raymond, K. N., 7A23
 Raymond, R. S., 6J171
 Rayson, G. D., 7J84
 Rayss, J., 3J19
 Razdan, M. N., 7D200
 Razlivanov, A. I., 12J1
 Razumas, V., 3J106
 Razumov, V. A., 5G21
 Razuvaeva, M. A., 4B92
 Read, G. F., 8D136
 Read, G. W., 8J102
 Reader, H. P., 9F51
 Reader, J. A., 2F18
 Reader, M. J., 8E74
 Ready, D. E., 12J6
 Reamer, D. C., 5D34, 7D33
 Rebbert, R. E., 8C51
 Rebelo, M. J. F., 7J125
 Rebhan, H., 8C90
 Rechenberg, W., 4J115
 Rechnitz, G. A., 2D219, 2D233, 3D105, 5D228, 12D10, 12D100, 12J161, 12J165
 Recoskie, B. M., 12B71
 Reddig, N. A., 12D207
 Reddy, A. S., 10B57
 Reddy, B. S., 4E58, 10C41
 Reddy, D. V., 4B134, 6B120, 9B165, 12B154
 Reddy, G. N., 6A5
 Reddy, G. R., 1B50
 Reddy, K. H., 4B134, 9B165, 12B154
 Reddy, K. S., 1E21
 Reddy, L. K., 10B57
 Reddy, N. L. P., 10B57
 Reddy, N. S. R., 6B120
 Reddy, P. C., 1B50
 Reddy, R. R., 10B87
 Reddy, S. J., 9B187
 Reddy, T. M. K., 11C22
 Redfern, J. P., 8J131
 Redford, D. P., 12H105
 Reece, P. A., 7D93, 11D32
 Reeck, G. R., 4D240, 4D244
 Reed, A. W., 10D199
 Reed, P. I., 2D121
 Reed, R. C., 10D59
 Reed, R. H., 8D104
 Reed, T. J., 12H37
 Rees, G. J., 3J67
 Rees, K., 7H72
 Reeve, V. C., 12D67
 Refat, I. H., 6E38
 Reggers, G., 11H34
 Reginato, R., 3D71
 Regnier, F., 2D203
 Regnier, F. E., 3D182, 3D223, 5D1, 6D201, 9J43, 10D194, 11A2B
 Rego, T. J., 6G8
 Regoli, D. C., 5D188
 Rehacek, Z., 8E14
 Rehak, N., 8D127
 Rehani, S. K., 6A6, 8C22
 Reher, D., 5J137, 5J142
 Rehfeld, S. J., 9D22
 Rehmer, U., 5D128
 Reich, T., 6H12
 Reichmuth, C., 2G29
 Reid, A. D., 4D203
 Reid, G. R., 12B140
 Reid, R., 6D206
 Reid, T. R., 9D234
 Reif, V. D., 6E37
 Reigner, M., 12B36
 Reijenga, J. C., 2J35, 3D124, 3J43, 9J48
 Reim, R. E., 2J25
 Reimer, G. L., 3D220
 Reimerdes, E. H., 2F26, 9F5
 Reimschuessel, W., 6D44
 Rein, A. J., 8E29
 Rein, J. E., 12B79
 Reiner, G., 12D192
 Reinert, K. H., 4D139
 Reinhard, C., 9F45
 Reinhardt, D., 6D173
 Reinhard, E., 5D245
 Reinmueller, H., 5J130
 Reis, B. F., 2H45, 7G1
 Reisch, J., 6E23
 Reisch, J. W., 4G25
 Reiser, R. W., 7D105
 Reiss, E., 6D145
 Reiss, J. A., 12E29
 Reiss, J. J., 3J121
 Reissova, A., 11J14
 Reiszner, K. D., 1H12
 Reithberg, D. P., 1D45
 Reiter, L. G., 5B247
 Reive, D. S., 5D26
 Rej, R., 5D235
 Rejent, T. A., 5D86
 Rejolec, V., 7C21
 Rele, M. V., 3D8
 Remsburg, B. J., 6D67
 Remstedt, H. G., 10H93
 Ren, H., 12B40
 Ren, J., 7B8
 Ren, M., 6J180, 9B110
 Rendell, M., 6D228
 Rendic, D., 7B144, 11B44
 Renema, J., 3E22
 Renman, L., 3C31, 5C49
 Renneberg, R., 3D258, 3J110
 Renoe, B. W., 1D22
 Rentzepis, P. G., 4J99
 Renwick, A. G. C., 5D151
 Renyei, M., 8C6
 Renz, M., 3D226
 Renzi, N. L., jun., 5D47
 Repasova, L., 10C73
 Repique, E. V., 9D2
 Repta, A. J., 1D68, 2D107, 8C35, 8D160, 8E73, 12E59
 Requena, E., 1B49, 5B76
 Requena, I., 7D190
 Reucha, A., 4B62, 5B57, 5B58
 Reshetnyak, V. Yu., 2D1
 Resnizky, S. M., 4D25
 Retegui, L. A., 12D186
 Rettberg, T. M., 9J90
 Rettenmaier, R., 3D242
 Rettenmeier, A., 6D211
 Rettig, S. L., 6B175
 Retunskii, V. N., 8C10
 Reupert, O., 7G15
 Reuter, A., 4D322
 Reuter, H., 5F19
 Reuter, J. H., 6H78
 Reuter, W., 1D107
 Reutergardh, L., 12D109
 Reutter, D. J., 3C65
 Reveillaud, R. J., 7D14
 Revel, G., 5J140, 11B71
 Revnant, M. C., 12D194
 Revzan, K. L., 10H13
 Rexa, R., 5J157
 Rey, M., 8C49
 Reyes, P., 4D303
 Reynolds, D. L., 8C35, 8E73
 Reynolds, F., 10D83
 Reynolds, L. M., 4D142
 Reynolds, N. C., jun., 10D178
 Reynolds, P. C., 11D108
 Reynolds, S. L., 4F63, 10F42
 Reynolds, W. F., 11D154
 Rez, P., 8J77
 Rezanka, T., 3D107
 Rezhnikov, V. I., 12H3, 12H46
 Reznicek, J., 12H36
 Reznik, T. L., 11J50
 Reznikov, S. A., 4J61
 Rhead, M. M., 6H92
 Rhodes, C. J., 4D292
 Rhodes, G. R., 11D8
 Rhodes, J. R., 1B152
 Rhodes, M. J. C., 9D153, 9E60
 Rhodes, R. C., 7D105
 Rhys Williams, A. T., 5B116, 6J141
 Riad, M. M., 6J170
 Riba, M. L., 4C48
 Ribansky, I., 2A20
 Ribeiro, M. L., 4F39
 Riber, E., 10D26
 Riberzani, A., 9F29
 Ribick, M. A., 5F25
 Ricci, D., 8J13
 Ricciardi, B. R., 1D200
 Rice, D. A., 10D125
 Rice, G. W., 5J94, 10B18, 10J96
 Rice, T. D., 1B108
 Richard, A., 11E35, 11E50
 Richard, H., 10H29, 11H18
 Richard, J. J., 7C44
 Richard, M. L., 5H26
 Richardin, P., 10C54
 Richardot, P., 1A7
 Richards, J. C., 12F40
 Richards, J. F., 10D153
 Richardson, D. E., 4H84
 Richardson, D. P., 10F4
 Richardson, K. E., 4D157
 Richardson, P. T., 5A31
 Richardson, R. L., 11D32
 Richardson, R. W., 9D229
 Richardson, T. C., 6D11
 Richelmi, P., 12D46
 Richens, A., 6D77
 Richfield-Fratz, N., 12F8
 Richheimer, S. L., 1E17, 6E32
 Richmond, R., 12D125
 Richmond, W. N., 5E53
 Richon, K., 4J33
 Richter, B. E., 1J53, 4J73, 5H29, 6J40, 6J88, 8J59
 Richter, F., 10D227
 Richter, F.-W., 10H3
 Richter, M., 3D258
 Richter, P., 12E3
 Richter, W., 5J6
 Richter, W. O., 12D177
 Ricker, T., 12J148
 Rickert, F., 5J98
 Ricoveri, W., 7D126
 Riddell, F. G., 1A2B
 Riddington, I. M., 8B134
 Riddles, P. W., 3D267
 Rideout, J. M., 5D213, 7D209, 7D210, 10C16
 Ridgeway, A. M., 4D283
 Ridl, W., 2D165
 Ridley, B. A., 2H14
 Riebe, S. M., 2D50
 Rieck, W., 9D83
 Riedel, K., 3D258
 Riedel, K.-D., 2D88
 Riedel, W., 9J74
 Riedel, W. J., 12H18
 Riehl, J.-J., 11B156
 Riekkinen, P. J., 10D259
 Riekkola, M.-L., 1B13, 11J51
 Riemer, G., 11B109, 11B140
 Riepe, W., 4C60
 Riera, J., 8J10
 Ries, H., 10H3
 Riesenfeld, J., 7D256
 Riethling, A.-K., 11D75
 Rietz, B., 4H38, 8H24
 Rigal, M., 6D101
 Rigano, D. C., 10H5
 Rigaud, M., 4D165
 Rigdon, L. P., 12C81
 Rigg, E., 3H47
 Riggemann, H.-J., 5D60
 Riggins, R. M., 1H23, 4H76, 5H94
 Riggs, E. M., 2D4
 Riggs, K. W., 4D119
 Righetti, P. G., 2J32, 10D192, 10J56, 11J44, 12D208
 Rigin, V. I., 1B147, 4G14, 7D168
 Rigler, M. W., 6D181
 Rigo, A., 3J111
 Rigo-Betz, C., 4D322
 Rihs, K., 12E14
 Rijks, J. A., 6C1, 12H78
 Riley, B. F., 8B76
 Riley, C., 1D170, 8D21, 8D199
 Riley, C. M., 2D107, 8E73, 12D101
 Riley, J. E., jun., 5B282
 Riley, K. W., 8B133
 Riley, T. L., 5C71
 Riley, W. D., 10B152
 Rimboeck, K.-H., 7J26
 Rimmel, P., 3H57
 Rinderknecht, F., 2G18
 Ring, D. L., 8D16
 Ring, E. J., 8A7, 8A8
 Rink, T. J., 7D24
 Rinker, A. D., 12D238
 Rinne, D., 6B25
 Rios, A., 3B31
 Rioux, C., 3D131
 Rioux, R., 8H82
 Ripamonti, M., 12D148
 Ritter, B. D., 4G28
 Ripperger, S., 9A35
 Risebrough, R. W., 4D142, 6H80
 Risin, V. E., 11B30
 Risinger, L., 5B64
 Risser, N. H., 5G24
 Ristinen, R. A., 6J171
 Ristow, K. A., 7F70
 Ritschel, W. A., 10D50, 11D35, 11D36
 Ritter, H. P., 11D227
 Ritter, M., 3D9, 8D142
 Rittinghausen, R., 4D294
 Riutaus, J. J., 12H13
 Riutta, A., 12D127
 Riiva, R., 1D99
 Rivard, G. E., 6D122
 Rivas-Gonzalo, J. C., 8F45
 Riveros, J. A., 8J78
 Rivers, D. B., 11H80
 Rivier, J., 3D192
 Rivoir, L. M., 8B115
 Rizk, M. S., 11B91
 Rizvi, G. H., 4B135, 5B91
 Rizzatto, M. de F., 9F37
 Rizzello, F., 4F21
 Rizzica, M., 2D15
 Roach, J. A. G., 1D64, 10F74
 Roach, N., 11D11
 Robards, K., 5B14
 Robarge, W. P., 7H46
 Robb, T. A., 6D26, 10D150
 Robbat, A., jun., 6C31, 10J75
 Robbers, J., 12D12
 Robbins, J., 7J77
 Roberge, A. G., 9F24
 Robertson, J. C., 11D258B
 Robert, J.-L., 9B175
 Robert, P., 6F72, 11G17
 Robert, R. V. D., 12B176
 Robert, T. A., 2D120
 Roberts, D. J., 7J56
 Roberts, E. J., 10G7
 Roberts, E. L., 6D304
 Roberts, J., 4D20
 Roberts, J. G., 5D61
 Roberts, L. J., II, 9D163, 11D164
 Roberts, M. S., 8D88
 Roberts, N. B., 12D22
 Roberts, P. V., 7H53
 Roberts, S. E., 9E35
 Roberts, W. L., 2J56, 7C45, 7J59
 Robertson, D., 11D46
 Robertson, D. L., 3E38
 Robertson, G., 6D19
 Robertson, I., 10D39
 Robertson, J., 9G8
 Robertson, J. A., 5F60
 Robertson, S. P., 4J10

- Robie, N. W., 5D170
 Robin, H., 10D47
 Robins, G. V., 1C32
 Robins, R. J., 9D153, 9E60
 Robinson, B. A., 1D66
 Robinson, C., 10D132
 Robinson, C. A., 4D109
 Robinson, F. A., 8F17
 Robinson, G. W., 12C32
 Robinson, J., 7C19
 Robinson, J. B., jun., 4D238
 Robinson, J. D., 4D66, 5C41
 Robinson, J. L., 11F13
 Robinson, K., 3D51, 9D40
 Robinson, P. A., 2D192
 Robinson, W. T., 9D96
 Robinson-White, A., 5D173
 Robrish, S. A., 9D122
 Roby, M. R., 9E3
 Robyt, J. F., 9D269
 Rocca, J. L., 6C17, 6D57
 Rocchi, P., 3G15
 Rocchiccioli, F., 9D120
 Rocha, E. M., 1C8
 Rocha, J. C., 12B124
 Roche, G. P., 12F34
 Roche, N. G., 10B83
 Rochester, C. H., 5C88
 Rochu, D., 4D252
 Rocklin, R. D., 2C17
 Rocks, B. F., 1D170, 8D21, 8D199
 Roczniak, A. F., 3B89
 Roda, A., 9D145, 10D236
 Roden, L., 7D256, 10D253
 Rodenhuis, S., 12D99
 Roderick, N. B., 5D173
 Roderger, M., 9D239
 Rodionova, L. M., 5B126
 Rodionova, R. A., 1J41, 7D140
 Rodman, D. J., 8H75
 Rodriguez, A. R., 3B58, 7C55
 Rodriguez, E., 3D101
 Rodriguez, H., 4D236
 Rodriguez, J., 8B28, 10B5
 Rodriguez, M. M., 3H36
 Rodriguez, P. A., 4J79
 Rodriguez-Espinoza, J., 8D173, 10D173
 Rodriguez Martin, V., 3D149
 Roe, D. K., 1J34, 8J128
 Roebisch, G., 2B82, 4B62, 5B57, 5B58, 6B169, 12B160
 Roehl, R., 12D44
 Roehle, G., 6D246
 Roehrig, P., 5D116
 Roelands, I., 7B66
 Roell, K., 2B18
 Roelgen, F. W., 4C66, 4J146, 5C87
 Roelofsen, A. M., 9J95
 Roeraade, J., 2J1
 Roesch, R., 5D187
 Roesick, E., 1D21
 Roesick, U., 1D21
 Roesner, T., 9A38
 Roess, R., 8B92
 Roessel, H., 4J3
 Roessner, B., 1H37
 Roether, W., 9J121
 Roev, L. M., 8C27
 Rogalski, J., 10D128
 Rogers, A. H., 4J9
 Rogers, C. H., 4J9
 Rogers, D. W. O., 3J98
 Rogers, H. J., 12D97
 Rogers, L. B., 4C90
 Rogers, M. E., 7E11
 Rogers, P. L., 8H67
 Rogers, V. A., 12D121
 Rogge, M., 6B25
 Rogoz, F., 12A5
 Rogozkin, B. D., 4B93
 Rohner, A., 6D314
 Rohner, P., 5C99
 Rohrbach, M. S., 6D312
 Rohwer, E. R., 11J54, 12J58
 Roinel, N., 6D3
 Roitman, L. I., 4H54
 Roizenblat, E. M., 12H16
 Rojas, J., 5A8, 12B141
 Rojas, P., 4G16
 Roka, L., 10D257
 Rokach, J., 7D127
 Rokita, E., 7D17
 Rokosz, A., 10A7
 Rokushika, S., 7D213, 7J49, 8C26, 12J48
 Roland, L., 6H78
 Rolland, P. H., 11D92
 Rollem, H. S., 7F55
 Rollier, H., 11H27
 Rollinger, W., 12D205
 Rolls, A. T., 2J101
 Roloff, M., 10F5
 Roloff, R., 5J190
 Rolston, D. D. K., 11D240
 Roman, J. M., 9D127
 Roman, L., 10B51
 Roman, S. H., 9D213
 Roman Ceba, M., 1B32, 1B112, 3B34, 3G21, 5B25, 10B132, 11B22
 Roman Galan, T., 5B25
 Romano, G., 8D33
 Romano, M., 6D166
 Romano, R., 3H80
 Romanova, A. D., 9B183
 Romanova, I. B., 2D35
 Romanova, O. N., 9B141
 Romanovskaya, L. E., 10B169
 Romanowski, T., 2C52
 Romaschin, A., 9D1
 Romero, M. L., 3E15, 8E5, 11D154
 Romette, J. L., 1J108, 3J112, 11J134
 Romig, A. D., jun., 6J118
 Romminger, G., 7F41
 Ronca-Testoni, S., 1D224
 Ronchetti, M., 12C78
 Rondinini, S., 4A7, 9J124
 Rood, A. P., 5B271, 7H10, 12J179
 Roofayel, R. L., 10D43
 Rook, B., 3E22
 Rooke, J., 9D82
 Rooney, L. W., 1G2
 Rooney, P. A., 11D109
 Rooney, T. A., 1J19
 Roos, A. H., 1D73
 Roos, C., 3D36, 11D48
 Roos, R. W., 4E55
 Roosendaal, H. E., 7B74
 Rooss, H., 9C67
 Root, A., 10D145
 Root, J. W., 9J63
 Roze, H., 12B143
 Rophael, M. W., 4J156
 Ros, J., 5C98
 Rosa, J., 2D216
 Rosales, D., 3H36
 Rosales, P. A., 4B192
 Rosalki, S. B., 9D270
 Rosamilia, J. M., 1J114, 3J113
 Rosati, F., 6D69
 Rose, B. C., 6B157
 Rose, D. A., 1J72
 Rose, G., 9C82
 Rose, H. N., 10D2
 Rose, K. D., 3B104
 Rose, M. E., 4D183, 4J149, 5B9
 Rose, V. E., 5H26
 Roseboom, H., 3E22
 Rosebrough, R. W., 3D169
 Rosello, J., 11D135
 Rosen, J. D., 9G2, 10F15, 11G5
 Rosen, J. F., 6D41
 Rosen, R. T., 9G2, 11G5
 Rosenberg, R. J., 6A12, 8J116
 Rosenblum, B. B., 3D195
 Rosenblum, M. G., 8D85
 Rosenfeld, J. M., 9C4, 12E50
 Rosenquist, T., 3D10
 Rosenthal, A., 6D28
 Rosenthal, J., 5D194
 Rosenthal, K. S., 2C54
 Roshchina, T. M., 10J73
 Roshdi, S., 7E15
 Rosicky, L., 5B92
 Rosiek, J., 7J67
 Roskoshnyi, V. G., 5B185, 11J139
 Roskovcova, L., 7B159
 Rosman, K. J. R., 5A17, 11J110
 Rosner, W., 1D162
 Rosopulo, A., 12H85
 Ross, M. M., 1J90, 6J159
 Ross, R. M., 1D102, 7D128
 Ross, S., 8E75, 12E44
 Rosseel, M. T., 6D107
 Rosseneu, M., 2D208, 9D216
 Rosset, R., 7H62, 9J21, 11A21
 Rossetti, D., 12D203
 Rossi, A., 3D232
 Rossi, D. T., 7J80
 Rossi, G., 1B60, 5B110, 7A7, 8J99
 Rossi, L., 3F4
 Rossi, M., 10D226
 Rossi-Bernardi, L., 12D148
 Rosta, L., 3B57
 Roston, D. A., 1D29, 5B39, 10B135
 Rotatori, M., 2D136
 Rotbergs, J., 7B19
 Rotgans, J., 12D166
 Roth, C., 12H10
 Roth, E. F., jun., 10D135, 11D222, 11D229
 Roth, J., 1J6
 Roth, M., 2C25, 6D314, 7A14, 12D38
 Roth, M. E., 12H39
 Roth, R. H., 6D163
 Roth, W., 7D80, 11D246
 Rothberg, M., 4J81
 Rothchild, R., 8E65
 Rothenberg, S. J., 11J5
 Rothenberg, S. P., 2D226
 Rothery, F. R., 4C87
 Rothkitt, K.-D., 9F5
 Rothley, D., 6E62
 Rothman, S. J., 5A29
 Rothstein, S. M., 4A28
 Rotilio, G., 3J111
 Rotocki, P., 5J56
 Roitschaler, J. C., 10D73
 Rottendorf, H., 12C49
 Rotter, S., 10H93
 Rotunno, T., 3A19
 Rouan, M. C., 2D57
 Roubal, W. T., 12J52
 Roubal, Z., 11D86
 Roud, H. K., 2D182
 Roulston, J. E., 1D227, 4A29, 6D311
 Roumeliotis, P., 3D140, 7J21
 Rounds, M. A., 9J43
 Rousseeuw, P., 5A30
 Roustian, J.-C., 2J92
 Routledge, P. A., 6D119
 Routti, J. T., 12A13
 Rovei, V., 6D101
 Rovida, E., 3D216, 12D148
 Rowan, R. M., 8D4
 Rowe, D. J. F., 8D215
 Rowe, N. A., 10J7
 Rowe, P. M., 4D308
 Rowe, P. R., 11D159
 Rowell, F. J., 1D50
 Rowland, M., 3D74
 Rowland, S. J., 1C5
 Roy, B., 2B14, 4B183
 Roy, B. R., 4F76, 6F16, 6F80, 9F11, 9F55
 Roy, C., 12C61
 Roy, S., 4D335
 Roy, T. A., 7G27
 Royal Society of Chemistry, 4G23, 6F8, 6G23, 6G25, 8F28, 8J88
 Royse, V. L., 10D255
 Rozell, P. R., 1D109
 Rozen, A. M., 6B90
 Rozga, B., 7D216
 Rozing, G., 10J45
 Rozycki, C., 3B37, 5B225
 Rozylo, J. K., 7J51
 Ruan, Z., 8D87
 Ruasse, M. F., 3B85
 Rub, L. M., 1J102
 Rubach, K., 10F54
 Rubel, A. P., 11B34
 Rubel, S., 5B46, 5B66, 5B285, 10B54
 Rubin, C. S., 1D160
 Rubin, H. R., 11D71
 Rubin, R. J., 6D273
 Rubin, R. W., 1D153
 Rubinov, A. N., 7B59
 Rubinovich, R. S., 4B19
 Rubinstein, I., 7D120
 Rubio, D., 6B152
 Rubio, R., 8H50
 Rubio, S., 12F11
 Rubisov, V. N., 5C2
 Rublev, V. V., 3B1
 Rubow, K. L., 1J5
 Ruchirawat, S., 10D162
 Ruckendorfer, H., 11G28
 Rud, A. N., 5C15
 Rudakova, S. E., 4J95
 Ruddel, M., 4D78
 Rudel, L. L., 8D211
 Rudenko, B. A., 4C43, 4J54
 Rudenko, V. K., 5B90
 Rudge, S. R., 3D77
 Rudin, A., 9C86
 Rudnevskii, N. K., 1C13, 5B86, 8B3, 10B99, 10B112
 Rudnitskaya, O. V., 4B185
 Rudolf, W., 5H4
 Rudolf, K.-P., 4B130, 4B131, 9B124
 Rudolph, W., 12B30, 12B130
 Rudometkin, S. V., 4B166
 Rudzinski, W. E., 10H78
 Ruedenauer, F., 7J104
 Ruegg, F. C., 12D150
 Ruehle, P. H., 5C71
 Ruessell, H. A., 4B24
 Rueter, J., 6B14*, 9B138
 Ruettimann, A., 6D267
 Ruetzel, H., 12H53
 Ruf, H., 4J155
 Ruff, P., 12E15, 12E17
 Ruffert, K., 5D38
 Ruge, W., 5D128
 Ruggiero, M., 7D126
 Ruggiero, R., 10J67
 Rugraf, L., 11F36
 Ruiz, M. T., 3B103
 Ruiz-Minguez, M. A., 10D173
 Rukhadze, E. G., 9B170
 Rule, G. S., 11D256
 Rulikowska Zarebska, E., 10J125
 Rullo, K. T., 3C16
 Rumiantsev, D. O., 2D94
 Rumler, C., 2J103
 Rump, H. H., 12B60
 Rump, T., 10J34
 Rumph, J. L., 9E11, 9E12
 Runsey, J. A., 8J133
 Rumyantsev, V. Yu., 6C8
 Runge, E.-A., 4H50
 Runnebaum, B., 12D235
 Runov, V. A., 4C30
 Runov, V. K., 6B78
 Runtov, V. I., 9B154, 12B12
 Runyon, J. R., 2J29
 Rupainwar, D. C., 11B54
 Rupp, B. H., 5D135, 9D130
 Rurak, A., 3D75
 Rurak, D. W., 4D119
 Rusanov, A. K., 11J67
 Rusch, G. M., 1H25
 Ruschak, M. L., 5J88
 Rusek, M., 3J31
 Ruseva, E., 2B59, 12C37
 Ruseva, N., 11E25
 Rushton, M. R., 1D97

- Rusling, J. F., 11A28, 11E6
 Russell, D. H., 12J125
 Russell, D. J., 6H93
 Russell, G. M., 6J18, 8B10
 Russell, J. A., 11D168
 Russell, J. G., 2B8, 5B30
 Russell, J. R., 3J45, 7J35
 Russell, L. H., 8F30
 Russell, L. W., 9C87
 Russell, P. J., jun., 11D186
 Russell-Jones, G. J., 9D199
 Russo, M. V., 6J85
 Rustamova, T. R., 1J9
 Rustin, P., 4D305
 Rus'yanova, N. D., 4B197
 Ruzsna, L., 2D132, 5C58
 Rutan, S. C., 11B50
 Rutgeerts, P., 6D199
 Ruth, E. C., 6H101
 Ruth, W., 6E29, 11C24
 Rutherford, G. K., 2H49
 Rutkowski, R., 11B79
 Rutledge, J., 1D184
 Rutman, M. E., 6B12
 Rutowski, A., 10F29
 Rutzke, M., 2G1
 Ruvinskii, L. Ya., 10H20
 Ruzaikina, L. V., 3B55
 Ruzicka, J., 3H34, 4B28, 4J13, 5J12
 Ruzicka, V., 9C29
 Ryabikh, L. D., 11E51
 Ryabikova, V. M., 9C84
 Ryabinin, A. I., 4H63
 Ryabinin, V. B., 10B7
 Ryabova, E. V., 4C33
 Ryabukhin, V. A., 3B55, 7B62
 Ryabushko, O. P., 4B71
 Ryabushko, V. O., 6B94
 Ryabykh, S. M., 4B68
 Ryan, D. E., 2B1, 3D28, 10B58, 11H38
 Ryan, F. J., 10D220
 Ryan, J. F., 1J80
 Ryan, K. M., 12D48
 Ryan, M. P. W., 1D18
 Ryan, P. A., 1J86
 Ryan, T. M., 9E11, 9E12, 12E27
 Ryan, W. S., jun., 1D79, 11D120
 Ryaschikov, V. I., 1B158
 Ryba, O., 1J104
 Rybakov, A. A., 1B101, 12H70
 Rybakov, K. A., 5C2
 Rybakova, E. V., 4J164
 Rybakova, M. M., 12B43, 12H60
 Rybalka, V. B., 5B172
 Rybasov, A. G., 12B10, 12B11
 Rybkina, T. I., 3C24
 Rybova, S. V., 12B158
 Rydberg, T., 7J31
 Ryder, J. F., 7J34
 Rye, R. R., 4J142
 Ryono, D. E., 11D245
 Ryschka, R., 1C31
 Rys'ev, O. A., 12J51
 Ryska, M., 1C34, 11D86
 Rytting, J. H., 9D47
 Ryumina, K. N., 4B194
 Ryzhak, I. A., 1H26
 Ryzhinskii, M. V., 5B120
 Ryzhkov, A. V., 12B10
 Ryzhkov, N. T., 9B3
 Ryzhkov, V. A., 12B11
 Rzaev, B. Z., 12B110
 Rzeszowska-Modzelewska, K., 10B155
 Rzhovina, L. A., 6B145
 Saada, B., 4C93
 Saadat, S., 4D152
 Saar, J., 7D208
 Saari, L. A., 12A4, 12B47
 Saarinen, L., 4J81
 Sabate, L. G., 4J28, 9A28
 Sabatino, T., 4D139
 Sabatka, J. J., 5D102
 Sabatovskaya, V. L., 4B103
 Sabde, D. S., 8C33
 Sabelli, H., 9D114
 Sabolchii, N. T., 4B47
 Sabourin, M. A., 8D50
 Sacco, D., 6E28
 Sackett, P. H., 3H61
 Sadasivan, S., 11J77
 Sadek, P. C., 1J27, 12J24
 Sadiyeva, N. M., 8D26
 Sadiq, M., 9F26
 Sadler, P. J., 10D3
 Saeed, K., 2D44
 Saeki, H., 2D179
 Saeki, M., 8F27
 Saeki, S., 2A16
 Saeki, Y., 1D159
 Saetherblom, H. E., 5B5
 Safarik, L., 10E29
 Safavi, A., 10B159
 Safin, A. I., 7C6
 Safonov, L. A., 7B18, 8B7
 Safronova, T. O., 8E21
 Safronova, V. G., 5B34
 Safrugin, Yu. S., 3G7
 Sagar, M., 3H57
 Sagara, K., 5E10
 Sagaradze, N., 9B99
 Sager, M., 12B61, 12B62, 12H7
 Sagi, S. R., 1B51, 7C22, 9C16, 9C18
 Saguy, I., 6F1, 9F41
 Saha, H. K., 9B42
 Saha, M. B., 4B171, 4B177
 Saha, U., 4E23
 Sahami, S., 5B79
 Saheb, S. E., 8H82
 Sahl, O., 7D123
 Sahlberg, B.-L., 4D181
 Sahlberg, G., 10F3
 Sahrawat, K. L., 6G8, 9G3
 Said, E., 10C59
 Said El Shami, A., 7D230
 Saidmuradov, Zh., 4B11, 7H28
 Saifullin, R. T., 5J20
 Saigo, K., 11J39
 Saikusa, H., 5D100
 Saimot, A. G., 10D107
 Sainte-Laudy, J., 12D159
 Saint-Joly, C. M., 7E30
 St.-Pierre, S., 3D262
 Saita, R., 5D154
 Saito, A., 6D280
 Saito, I., 5F27, 7F5
 Saito, K., 1B1, 1J38, 11B26
 Saito, M., 1B120, 4D170, 4D201, 5B28, 8D20, 8J18, 8J35, 10J54
 Saito, S., 3D122, 4F18, 6F23
 Saito, T., 5C69, 5D5
 Saito, Y., 7D204, 12D191
 Saito, Z., 3D120
 Saitoh, H., 6H9, 6H32, 8F34, 12E63
 Saitoh, K., 3H60, 10J26, 12B3
 Saitoh, S., 10D216
 Saitou, N., 4A24, 11A27
 Sajo, I., 11B79
 Sakabe, Y., 7F20, 8F10, 10F19
 Sakaguchi, T., 2D64, 6D80, 9D118
 Sakai, D. T., 7F63
 Sakai, H., 9B119, 12D228
 Sakai, K., 5H62, 7H48
 Sakai, S., 7E4
 Sakai, T., 2D176, 6E24, 6J181, 11D81, 12B161
 Sakai, Y., 11D211
 Sakairi, M., 7J71
 Sakakibara, S., 4D311
 Sakamoto, K., 10H25
 Sakamoto, M., 11C70
 Sakanashi, Y., 8B257
 Sakane, Y., 10F58
 Sakata, Y., 10D213
 Sakatani, T., 4D336
 Saker, E. G., 10D53
 Sakerin, S. M., 4J101
 Sakiama, N., 11D228
 Sakimoto, M., 3C14
 Sakka, H., 6B28
 Sakla, A. B., 4C4
 Sakodinskii, K. I., 5D216, 8D9, 9J56
 Sakovets, O. P., 2H70
 Sakuragawa, A., 1B99, 9H61
 Sakurai, E., 4J39, 9D68
 Sakurai, H., 5B68, 11B106
 Sakurai, K., 7D25, 11D124
 Sala, G., 5F3
 Sala, J. V., 8B67
 Salagoity-Auguste, M. H., 6F18
 Salakhov, M. Kh., 9A33
 Salam, M. A. A., 3E25
 Salama, H. N., 3B61
 Salas, L. J., 3H25
 Salazar, R., 10D59
 Salcedo Hernandez, R., 4D245
 Salchli, S., 6D301
 Saleem, L. M. N., 11D167
 Saleem, M., 9B66
 Saleh, M. A., 1G15
 Saleh, N. S., 4J92, 4J93
 Salen, G., 8D114
 Salger, K., 4E22
 Salhi, S. L., 9D8
 Salier, J.-P., 4D318
 Salim, R., 10B64
 Salin, E. D., 4A22
 Salinas, F., 3B27, 3B87, 5B13, 5B180, 5B211, 5B243, 8B108, 10B12, 10B107, 10B124
 Salinas Lopez, F., 11B25
 Salot, A., 7H62
 Salles, L. C., 1B151
 Salman, S., 4E8
 Salmi, A., 3D186
 Salmi, T., 4C84
 Salmin, Yu. P., 4B194
 Salonen, J. S., 2D82, 2D86, 3D59
 Salontai, A. S., 4B47
 Salovaara, J., 11C17
 Salter, M., 3J45
 Saltzman, B. E., 1D25
 Salvador Carreno, A., 5A28, 6C42
 Salvadori, C., 3D33
 Salvi, M. L., 12D203
 Salvione, C., 4H10
 Salvo, F., 8F48
 Salzman, N. H., 5C104
 Samaja, M., 3D216
 Samake, H., 1D114
 Samara, C., 11A17
 Samarina, V. M., 4A31
 Same, D. G., 4D229, 4D257
 Samec, Z., 2B25
 Sameshima, T., 12D167
 Samsel, V., 11B166
 Sammons, H. G., 8D144
 Samochocka, K., 9D188
 Samoilova, V. F., 5B19
 Samorukova, N. F., 4B165, 6B113
 Sampathkumaran, P. S., 8C91
 Samperi, R., 7D143, 12D141
 Sample, M. M., 6D262
 Sampson, B., 5D22, 10D34
 Sampson, D. C., 3D29
 Sampson, E. J., 12D137
 Samson, C., 11B130
 Samson, D., 9D244
 Samuel, A. M., 4J160
 Samuelsson, B., 9A1B
 Samyn, W., 4D295
 Sana, T., 9B107
 Sanchez, J., 11A13
 Sanchez Batanero, P., 2B57, 3B2
 Sanchez-Pedreno, C., 5B166
 Sanchez Perez, A., 4D104
 Sanchez-Prieto, J., 8D244
 Sanchez Q., E., 9D64
 Sand, T., 7D252
 Sandberg, J. V., 12A13
 Sander, L. C., 7H23, 12J25
 Sandercock, J. R., 1B165
 Sanders, R. A., 2C11
 Sanders, R. W., 3A12, 5C75
 Sanderson, A. R., 7D196
 Sanderson, T. K., 11J114
 Sandlin, J. L., 9D180
 Sandmeier, D., 5F14
 Sandra, P., 1J46, 4J67, 4J74, 6J70, 6J71, 6J94, 7J57
 Sandrock, T. L., 8B117
 Sane, R. T., 1E14, 1E25, 2E19, 2E43, 5E59, 8E46, 10E32, 11E19, 11E20, 11E27, 11E37, 12B67
 Sanemasa, I., 2B3
 Sanemori, H., 5E29
 Saner, W. A., 4C2
 Sanger, B., 1D227, 6D311
 Sangermano, L., 11C74
 Sanger, B., 12D28
 Sanjuan, M., 6D101
 Sankaran, P. S., 2B47
 Sanna, U., 7B77
 Sanner, G., 5B184
 Sanni, A. O., 9J80, 10B83
 Sannia, G., 5D180
 Sannolo, N., 4D28
 Sano, H., 8D70
 Sano, K., 10D186
 Sano, T., 3H66
 Sant, B. R., 1B47
 Santagostino, G., 6D100
 Santana, J. J., 10B44
 Santarromana, M., 5D19
 Santasania, C. T., 7J22
 Santini, R. E., 9J106
 Santoni, Y., 11D92
 Santopadre, P., 1B100
 Santoro, M. I. R. M., 9C14, 9E37
 Santos Buelga, D., 4D104
 Sanyal, A. K., 7E37
 Sanz, J., 8J60
 Sanz Medel, A., 5D20, 11B99
 Sanzalone, R. F., 6B61
 Saporovskaya, M. B., 6D217
 Sapozhnikov, V. A., 7H67, 10H79
 Sapp, E., 12J36
 Sappl, A., 4D51
 Saprykin, A. I., 4A6, 4B31, 5B135
 Saprykina, T. I., 10B14
 Sarada, A., 1D134
 Sarandis, S., 11D64
 Saranko, A.-M., 9D140
 Sarantonis, E., 2B65
 Saraswathi, G., 8F6
 Saravalle, C. A., 6J95
 Sarbu, C., 1J42, 8C13
 Sardesai, V. M., 4D221
 Sardo, A., 1B67
 Sargent, G. F., 5D153
 Sarin, R., 2H46, 6H69, 10H58
 Saris, C. J. M., 3D206
 Saris, N.-E., 6J22
 Sarkar, M., 9D135
 Sarkissian, L. L., 6B134
 Sarlashkar, V. D., 1E14
 Sarma, B. S. R., 5B45, 10B103
 Sarma, P. N., 10C48
 Sarmany, J., 4C85
 Saro, S., 9J120
 Sarofim, A. F., 6B177
 Sarudi, I., 4F40, 4F59
 Saruhashi, M., 5J182
 Sarvaranta, J., 4J81
 Sarver, E. W., 3C23, 9C93
 Sarwar, G., 1F1
 Sarx, B., 6D47
 Sarycheva, N. Yu., 6B148
 Sarzanini, C., 5B23, 9C17
 Sa'sa, S., 11E24
 Sasa, T., 3D215, 7D207
 Sasagawa, S., 4D336
 Sasagawa, T., 5D185, 12D179
 Sasaki, D., 10D213
 Sasaki, H., 2D92, 4J42, 7B116, 7B117, 11D228
 Sasaki, K., 3D163, 8D174
 Sasaki, M., 1J110, 3D222, 9F17, 11D24, 12H67
 Sasaki, N., 6F22

- Sasaki, T., 7J48
 Sase, M., 4B202
 Sasek, A., 7G6
 Saska, M., 7C92
 Saskowska, A., 4E19
 Sassard, J., 6D87
 Sasse, E. A., 7D201
 Sasson, Y., 5C31, 6J10
 Sastre, J., 9C13
 Sastri, V. S., 6H56
 Sastry, C. S., 10C33, 12C27
 Sastry, C. S. P., 4E58, 6C20, 10C37, 10C41, 10F20, 10F21, 11C22
 Sastry, N. R., 10B103
 Sata, T., 11D211
 Satake, H., 2B72, 12B121
 Satake, I., 6J184
 Satake, M., 1B117, 2B78, 3B92, 6B150, 7B120, 8B124, 9B40, 9B140, 9B162, 12B152, 12B164
 Satish, S., 4C91
 Sato, A., 2D64, 6D80, 8D231
 Sato, E., 10D98, 11D247
 Sato, H., 6B36
 Sato, K., 2D215, 7B93, 7E43
 Sato, M., 5D136, 7H73
 Sato, S., 1B42, 2C32, 3B69, 7H37, 9C58, 12B53
 Sato, T., 2C73, 2J24, 8B95, 10B15, 10B25, 11D23
 Satoh, H., 8D179
 Satoh, K., 12H56
 Satoh, S., 5B257
 Satoh, T., 5D97, 8D201
 Satoh, Y., 6B149
 Sattar, M. A., 5G31
 Sattarov, G., 5G1
 Sattayasai, J., 12D68
 Sattayasai, N., 12D68
 Satzger, R. D., 2G10
 Sauberlich, H. E., 11D226
 Sauder, H. W., 9D227
 Sauer, G., 9D133
 Sauer, K. H., 4B161
 Sauer, M. J., 5D147
 Sauerer, A., 11B31
 Saunders, A. M., 4D161
 Saunders, G., 7E11
 Saunders, J. B., 1D200
 Saunders, P. A., 12A16
 Saupe, K., 4A2, 12A3
 Saura-Calixto, F., 4F50
 Sauterin, L., 5F7
 Sauter, A., 4D231
 Savel'ev, I. B., 11D26
 Savel'eva, A. N., 5B48
 Savel'eva, V. V., 11B141
 Savickas, P. J., 12J127
 Savina, T. N., 4B68
 Savolainen, K. E., 2D225
 Savole, R., 5J119
 Savory, J., 1D22, 1D102, 4D121, 7D128, 8D150, 12D204
 Savrans'ka, R. N., 6E16
 Savranskii, L. I., 6A17
 Savvin, S. B., 4B61, 4B116, 6H46
 Sawada, J., 11D153
 Sawada, K., 8D25
 Sawada, M., 12D223
 Sawaki, S., 5D251
 Sawamoto, H., 10B160
 Sawano, M., 11G23
 Sawant, S. S., 10B56
 Sawant, S. V., 2E43, 10E32, 11E19, 11E37
 Sawatani, I., 7B51, 10B154
 Sawchuk, R. J., 7D98, 10D85
 Sawyer, D. T., 12B27
 Saxena, B. B., 12D178
 Sayadov, R. K., 12B110
 Sayato, Y., 10H60
 Sayem-El-Daher, N., 9F24
 Sayi, Y. S., 2B47, 4B95
 Sayo, H., 1D116, 7D147
 Sayre, E. V., 7B150
 Sayun, M. G., 3B64, 7B80
 Sazonova, V. F., 4B86
 Sbitneva, I. A., 2E38
 Sbrilli, R., 1B76
 Scallan, A. M., 11C66
 Scalori, V., 4D64
 Scandurra, R., 3J33
 Scanlan, G. F., 9D11
 Scanlon, J. J., 12C32
 Scanlon, P. F., 3D13
 Scarano, E., 1B64
 Scarlata, G., 8D33
 Scaro, J., 4D325
 Scarponi, F., 8G4
 Scarponi, G., 11F32
 Scasnar, V., 4D113, 5D18, 11D85, 12D23
 Scawen, M. D., 2D76, 4D69, 5D61
 Schaar, J. C., 3H61
 Schabron, J. F., 8C31
 Schachet, M. S., 1E17
 Schachtel, G., 5D240
 Schachter, M. M., 7F10
 Schachter, S., 5F44
 Schad, J., 5F18
 Schade, P., 7B102
 Schade, W., 11B96
 Schadewaldt, P., 4D43
 Schaefer, H., 4F12, 6F71
 Schaefer, H.-K., 6B25
 Schaefer, R., 11F24
 Schaefer, U., 8J49
 Schaefer, W., 1B11
 Schaeffer, D. J., 7H72
 Schaeffer, V. H., 6D273
 Schaefflibaum, M., 2F25
 Schafer, K. H., 10J39
 Schaffer, M. I., 3D56, 8D32, 8D78
 Schaffer, R., 12D150
 Schaffler, K. J., 10F25
 Schalch, E., 10B24, 11B17
 Schalekamp, M. A. D. H., 6D305
 Schalk, A. P., 5C9
 Schall, R. F., jun., 6D1
 Schaller, G., 4D19
 Schalls, K. H., 4D17
 Schams, D., 5D191, 8D183
 Schanche, J.-S., 5D224
 Schanche, T., 5D224
 Schanze, M., 2D156
 Schaper, G., 5D141
 Scharmann, A., 4J109
 Scharpe, S. L., 1D226, 8D247
 Schaufelberger, D., 9D220
 Schechter, P. J., 11D67
 Schecker, H.-G., 9H8
 Scheer, B. J., 11E6
 Scheffer, J. J. C., 4D144
 Scheffers, W. A., 5J178
 Scheffler, K., 6B59
 Scheffrahn, N. S., 5D153
 Scheidl, K., 2E8
 Scheinberg, D. A., 2D204
 Scheinert, W., 11J33
 Scheinin, B., 6D223
 Scheinin, M., 3D59, 3D99
 Scheja, J., 10D196
 Schelhorn, H., 12J138
 Scheline, R. R., 7D243
 Schell, H. D., 1D219
 Schellenberg, B., 4D294
 Scheller, F., 3D258, 3J110, 7F12, 7J133
 Schelske, C. L., 9H71
 Schelter-Graf, A., 6F76, 8J126
 Schenck, P. K., 10J91
 Schenk, G. H., 3C3
 Schenkel-Brunner, H., 4D314
 Schentag, J. J., 1D45
 Schepers, P. G. A. M., 8D5
 Scheraga, H. A., 11D196
 Scherer, R., 1D84
 Scherpenzeel, G. J., 12J65
 Scherrmann, J. M., 9D42, 10D62
 Scherz, H., 4F12
 Scherz, J.-C., 2F9
 Scheuermann, H., 1H25
 Scheulen, B., 3D73
 Schiavon, R., 3D50
 Schick, K. G., 12J11
 Schiebel, H.-M., 7D218
 Schieberle, P., 4F23
 Schiedt, K., 6D267
 Schiefer, G., 10F28
 Schieffer, G. W., 9E62
 Schiekel, M., 5J75, 5J76, 5J159
 Schierup, H. H., 5D24
 Schievelbein, H., 10D227
 Schiff, H. I., 2H14
 Schiffers, B., 12G16
 Schilbach, U., 1B41, 10G11
 Schilder, T. S., 2A18
 Schill, G., 1J37, 7J31
 Schilling, B., 1J48, 2J43
 Schilt, A. A., 5B223
 Schima, F. J., 5J151
 Schimbor, C., 12D187
 Schindlbauer, H., 12C43
 Schindler, A., 9H26, 9H27
 Schindler, E., 5G2
 Schinkel, H., 11B3
 Schintlmeyer, W., 7B11
 Schirmer, R. E., 11C62
 Schisla, R. M., 1G9
 Schlabach, T. D., 3D142, 3D161, 7C19
 Schladow, J. D., 12D27
 Schlatterer, B., 7D96
 Schlebusch, H., 5D16
 Schleicher, E., 1D182
 Schleicher, M., 1D161
 Schleisman, A. J. J., 12C5
 Schleithoff, M., 1D182
 Schlemmer, G., 4D56, 9D33
 Schlemmer, W., 1D2
 Schlesier, J. F., 12F25
 Schlicht, F., 6D129
 Schlicht, K. R., 1D93
 Schlimme, E., 4J26, 7D223, 9D237
 Schlosser, P., 9J121
 Schlunegger, U. P., 7J105
 Schmah, G., 1J59
 Schmeltz, I., 3H78
 Schmid, E. R., 11A4B, 11A5B
 Schmid, P. P., 8C9
 Schmidt, A., 1D80
 Schmidt, D., 6H50, 8H44, 12H55
 Schmidt, E., 5D211, 6D212, 11H21
 Schmidt, G. W., 5D198
 Schmidt, H., 7B156
 Schmidt, H.-L., 6F76, 8J126
 Schmidt, J., 8H7
 Schmidt, K. G., 12J86
 Schmidt, L., 3J94
 Schmidt, N. A., 12D151
 Schmidt, R., 1B106, 5B200, 6H25, 10G2, 12D12
 Schmidt, R. H., 4D153, 4F48
 Schmidt, W., 2C42, 2C43, 4G12, 12B14
 Schmidt-Gayk, H., 4D294
 Schmidtke, G., 12H18
 Schmidt-Reinholz, C., 7B156
 Schmit, J. A., 11D136
 Schmitt, B.-F., 12G4
 Schmitt, R. A., 10D22
 Schmitt, U., 12D205
 Schmitter, J.-M., 4C51
 Schmitt-Henco, C. H., 12B60
 Schmitz, F. P., 3J24, 5C107
 Schmitz, G., 1D181, 7D136, 12D129, 12D130
 Schmitz, K.-H., 5J106
 Schmollack, W., 3D15, 8D151, 12D50
 Schnabel, W., 7D221
 Schneeweis, G., 4B5, 4B6, 5A12, 5B1, 5B2
 Schneggenburger, R. G., 5B31
 Schneider, B., 3A11, 11H32
 Schneider, D., 11C36
 Schneider, E., 4C66, 5C87
 Schneider, G. M., 4C22
 Schneider, H. G., 2E49, 12G5
 Schneider, J., 5D87, 11D107
 Schneider, J. F., 11G36
 Schneider, M. C., 6D54
 Schneider, W., 6D86
 Schnell, E., 4B121
 Schneppe, W. F., 6J171, 6J172
 Schnitzer, G., 1J66
 Schnitzerling, H. J., 3D267
 Schober, W., 6B169
 Schoch, A. E., 10B173
 Schoeler, H. F., 4H56, 4H57
 Schoelmerich, J., 3D123, 9D150
 Schoenember, H., 9D256
 Schoendube, M., 11H25
 Schoeneshoefer, M., 1D55
 Schoenfeld, T., 10H29, 11H18
 Schoenmaker, R., 6D83
 Schoentube, E., 9H21, 9H34
 Schoep, W., 5C14
 Schoessner, H., 10H82
 Schoevaert, D., 10C78
 Schoeknecht, W., 6D139, 12D166
 Scholer, A., 12D1
 Scholes, G., 7B21
 Scholle, S., 7A22, 7A22
 Schols, H. A., 5F35
 Scholz, E., 4F2
 Scholz, F., 5B200, 5J190, 9J30
 Scholz, R., 4D58, 4D217
 Scholze, H., 2J80
 Scholze, J., 1D60
 Schomaker, K., 8H44
 Schomberg, G., 6J67, 6J68, 7J25, 8C1, 11C6, 11J15
 Schon, M., 12C50
 Schoombie, E. M. S. P., 8D240
 Schoots, A. C., 6D14
 Schopper, D., 5D103
 Schorn, H., 7C96
 Schorthorst, R. C., 5A6, 5H59
 Schott, H., 9E27, 10D233
 Schott, K.-J., 11D209
 Schoudt, P., 4J12, 6D9
 Schouten, J. A., 6D155
 Schrade, H., 10D233
 Schrafft, R., 11C77
 Schramel, P., 7F61, 11D22
 Schramm, R. W., 7G10
 Schreiber, G., 3D246
 Schreiber, R. M., 9D58
 Schreiber, W. E., 4D269
 Schreier, P., 6F56
 Schreiner, M., 8J127
 Schrepp, W., 10B69
 Schreuder, H. A., 7D247
 Schreuder, R. H., 4G34
 Schreurs, J. J., 5J125
 Schreurs, W. H. P., 8D225, 11F4
 Schriever, H., 5D138, 7D136, 9D218
 Schrijver, J., 8D225, 11F4
 Schrimsher, J. M., 12H37
 Schroeder, J. L., 10D124
 Schroeder, K., 3D246, 11B89
 Schroeder, K. E., 5D194
 Schroeder, H.-P., 10E39
 Schroen, W., 5B269
 Schroeter, J., 11D209
 Schroeter, R., 11A1B
 Schroll, E., 4B193, 12B91
 Schrott, E. L., 10J84
 Schubert, C. A. W., 9D242
 Schubert, G., 7J133
 Schubert, R., 5B287, 9D103
 Schuberth, J., 4D65
 Schuch, R., 9F37
 Schuchardt, K., 12C45
 Schuerhoff, H. J., 7B55
 Schuette, I., 5F4
 Schuette, S. A., 6J60
 Schuettelkopf, H., 2H9, 2H11, 5H87, 5H88, 6B58
 Schuetting, R., 8D234
 Schuetz, C., 1D107
 Schuetz, H., 1E24, 3D43, 8D76, 10D89, 11D77

- Schuetzle, D., 4H45, 5C71
Schuhmann, P. J., 1F19, 4F47
Schuller, E., 5D208
Schulte, E., 1F21, 11F19
Schulte, U., 5A34
Schulten, H.-R., 1B3, 3D14, 7D218, 11D10
Schultz, B., 6H86
Schultz, D. P., 10H86
Schultz, F. A., 1J63
Schultz, G. R., 3H24
Schultz, J. S., 10A22
Schultze, P., 10J34
Schultz-Sibbel, G., 6H81
Schulz, C., 3D17
Schulz, F., 6J67, 6J68
Schulz, H., 9F56, 12C50
Schulz, J., 2J57, 11J60
Schulz, W., 4B2
Schulze, G., 5D205, 5J191, 9J139
Schulze, H., 7J85
Schulze, J., 6D212
Schumacher, D. V., 4B196
Schunack, W., 6E54
Schurath, U., 1H22
Schurig, V., 7C46, 7C47, 12J67
Schuster, S. M., 9D274
Schutjes, C. P. M., 6J69, 6J91, 12J65
Schutyser, P., 11J93
Schuurhuis, F. G., 9B102
Schuurs, A. H. W. M., 8D208
Schwaab, P., 7B73
Schwab, C., 11H27
Schwab, E., 5F17
Schwab, G., 4F10
Schwab, H. W., 4D294
Schwabe, R., 3H29, 5H97
Schwaighofer, B., 12H1
Schwandt, P., 9D219, 12D177
Schwartz, H. E., 4J27
Schwartz, H. J., 10D59
Schwartz, I. K., 5D96
Schwartz, L. M., 1A9, 7J139
Schwartz, M. K., 5D231, 10D2
Schwartz, R., 12D20
Schwartz, S., 7D211
Schwartz, T. R., 4J53
Schwartzman, G., 9C14
Schwarz, S., 4D16, 5D129
Schwarze, H., 3D152, 3D167
Schwarzenbach, R., 7H1, 11F31
Schwarzer, R. R., 10H59
Schwarzlose, J., 5H92
Schwedt, G., 1H37, 3H28, 5G10, 6D51, 6F70, 8J17, 12F1, 12G3, 12H58
Schweiger, A., 5F23
Schweikert, E. A., 1J93, 1J94, 9J80, 10B83, 10J117
Schweisfurth, H., 5D245
Schweizer, W., 4H86, 12H104
Schwenke, H., 2J65
Schwentner, N., 1J74
Schwenzer, K. S., 1D51, 4D83, 5D54
Schwiers, E., 5D133
Schwing, J. P., 5D116
Schwippert, W., 9J46
Sciarra, G. F., 12E60
Scoble, H. A., 7D215
Scoggins, B. A., 9D71
Scott, A., 2E9
Scott, B. J., 2J102
Scott, D. R., 1H23, 5C70
Scott, E. P., 4E34
Scott, G. K., 6J1
Scott, H. P., 7A16, 10J37
Scott, J., 10D157
Scott, J. C., 1D75
Scott, J. W., 4D109
Scott, K. J., 3D243
Scott, L. D. L., 12J164
Scott, N. R., 10D58
Scott, P., 5H98B
Scott, R. P. W., 4J17, 5J31, 12J21
Scott, S. P., 12H77
Scott, V. D., 11J82
Scott, W. J., 10D23
Scourides, P. A., 12E29
Scribe, P., 7H62
Scroggins, H. S., 3E36
Scypinski, S., 11J102, 12C36, 12C39
Sczepanik, B., 12E36
Seabourn, B. W., 6G5
Seah, M. P., 1J85, 9J109
Seal, H. R., 2D11
Sealfon, M. S., 10D4
Sealock, R. M., 12D15
Seaman, S. W., 3F28, 4F70, 12F21
Searle, P. L., 12B101
Sebesta, F., 5B111, 10A12
Sebor, G., 1C23
Sebrosky, G. F., 11D42
Secombe, D. W., 6D60
Secor McVoy, J. R., 8D246
Seda, J., 2B43
Sedee, A. G. J., 8E44
Sedgwick, B., 11D82
Sedgwick, R. D., 10E43
Sedlacek, J., 2D144, 5B111, 7F92, 10A12
Sedman, A. J., 5E41, 11D91
Sedmera, P., 8E14
Sedov, A. I., 3E46
Sedov, N. Ya., 6J166
Sedvall, G., 10D160
Sedykh, E. M., 1B73, 11B150
Sedykh, T. P., 1B30
Sedykin, K. G., 10H1
Seegopal, P., 2D233, 5D228, 12D100
Seehofer, F., 3G20
Seel, F., 1J6
Seelmann-Eggebert, H.-P., 9D226
Seery, D. J., 9H18
Sefolva, V., 1B121
Sefton, M. V., 3H8
Segaard, U., 9D231
Segal, S., 7D134
Segawa, T., 8D167
Segebad, C., 12G4
Segers, J., 10D189
Segiet-Kujawa, E., 4E18
Seguin, A., 4G27
Seher, A., 4F61
Seibert, G., 7D50
Seidah, N. G., 3D159
Seidel, D., 2D210, 5D141
Seidel, F., 9F36
Seiden, H., 8D254
Seidenglanz, G., 3D151
Seif El-Din, A. A., 3C59
Seif El-Nasr, S., 12D17
Seifert, A., 5D201, 5D205
Seifert, K., 4B138
Seifert, R., 7F92
Seifert, W. E., jun., 9D16
Seiferth, S., 8E87
Seifullina, I. I., 10B85
Seiler, D., 3D272
Seiler, H., 4D17, 11B38, 11J70
Seilmeier, W., 2G3, 9G6
Seim, H., 7D166
Seim, H. J., 5H5
Seip, H. M., 10H51
Seitz, P., 6J126
Seitz, W. R., 9J68, 12A4, 12B47
Seiyama, T., 6J6
Seki, A., 5J143
Seki, T., 8D141, 12D152
Sekido, E., 1B1, 11B26
Sekigawa, K., 10H75
Sekiguchi, H., 4C94
Sekiguchi, K., 5H64
Sekine, A., 5E3
Sekine, H., 4D110
Sekine, T., 5B11, 7J96, 9A10
Sekine, Y., 7D86
Sekino, H., 12D215
Sekiya, T., 3D213
Sekowska, B., 5C1
Selden, C., 8D180
Sel'dyakov, Yu. P., 6J166
Seleznova, V. A., 9B46, 10B45
Self, P. G., 5J68
Selig, W. S., 2B58, 8B102, 11C79, 11J129, 11J144, 12B120, 12J173
Selim, S., 2F36
Selimov, D. Sh., 12F37
Selivanova, R. P., 10C35
Seliversteno, S. I., 3B6
Selkirk, S. M., 6E45, 12E48
Seller, J. L., 5B258
Sellschop, J. P. F., 12B157, 12J141
Seltzer, M. D., 4J132
Selvaraj, P., 11D240
Selyaeva, A. I., 8C8
Selyanina, S. G., 4C9
Selyem, G., 10J149
Selzer, G. B., 8E38
Sem, G. J., 2H43
Semakhina, N. I., 1C15
Semenchenko, L. V., 8J15
Semenov, A. D., 9H65, 12H49
Semenov, V. A., 6D70, 8E18
Semenov, V. Ya., 1B97
Semenova, T. I., 12F32
Semenova, V. A., 6D70
Semerdjian, L., 11A21
Semerdzieva, M., 10D57
Semidevamma, G., 10B126
Semkow, T., 6B19
Semrad, S. D., 2D166
Sen, A. P., 11D97
Sen, N. P., 3F28, 4F70, 12F21
Sen, P., 7D13
Sen, S. K., 11B155
Senan, C., 2D216
Senda, M., 2D201
Senelt, S., 5F54
Senf, H.-J., 10C20
Senger, H., 4D217
Sengun, F. I., 3E26, 10D92
Sengun, I. F., 7D66
Sengupta, P., 4F76, 10F71
Senkevich, I. E., 4B122
Sen'kiv, N. P., 3E52
Seno, S., 5E3
Senofonte, O., 5B237, 11J91
Senthilnathan, V. P., 9C7
Sentyurin, I. G., 9J140
Sepaniak, M. J., 4D84, 5C29, 8J96
Seppala, E., 12D127
Seppala, M., 3D197
Seraya, V. I., 8H32
Serban, M., 10B51
Serbin, A. Ya., 9J69
Serbina, A. M., 6B5
Serbinovich, V. V., 1B54, 8B88
Serdobova, L. I., 1B8
Serebrennikova, N. V., 4B68
Serebryakov, A. S., 8J74
Seregina, S. L., 10J79
Seregina, I. F., 12B171
Serfontein, W. J., 1D178
Sergeev, G. M., 3B36, 4B178, 8B99
Sergeev, V. N., 5B229
Serikov, I. V., 1B59
Serio, M., 4D189, 12D140
Sernetz, M., 1J16
Serra, T. M., 10F33
Serrano Grima, C., 5A10, 5B189
Serrini, G., 4A8, 5A16, 5G20
Serusclat, P., 12D155
Servetaz, O., 8E19
Sesbova, R., 4D318
Seshadri, K. S., 11C53
Seshadri, S., 2H20
Seshadri, T., 8H89
Seshagiri, V., 10B157
Seshaiah, K., 6G32
Seshasayi, Y. V. S. K., 4G35, 10C47
Setchell, K. D. R., 3D125
Seth, J., 3D121
Seth, N. S., 12B169
Setia, C. L., 5B17, 9B40, 12B152
Setia, S. K., 10D235
Setia, R. C., 10F70
Settlage, J. A., 9D85, 10D99, 11J57
Severin, D., 2C42, 2C43, 5C67, 12C47
Severin, T., 10F24
Severn-Trent Water Authority, Severn Estuary Chemists' Sub-Committee, 7H25
Severson, R. F., 2J50
Sevillano Cabeza, A., 5B177
Sevini, F., 12C70
Sevost'yanov, V. P., 4C102
Seyama, Y., 12B132
Seybold, P. G., 5J107
Seyfarth, W., 4F62, 9F46
Seymour, F. D., 2J101, 4J157
Seymour, R. J., 1J67
Sezaki, M., 6D248
Sgambati, C., 3D89
Sgoutas, D., 1D6, 3D119, 10D147
Sha, S.-Z., 3F9, 8C32
Shabanov, A. L., 7B24, 12B98
Shabanova, I. N., 4J140
Shaburov, M. A., 8C17
Shaburova, V. P., 9B48, 9B50
Shackleton, C. H. L., 4D180
Shada, D., 3E47
Shader, R. I., 6D93, 12D80
Shaevich, A. B., 7C4
Shafer, K. H., 5J28, 10H91
Shaffer, R., 4D130
Shaffert, A. A., 5B19
Shafi, A. A., 9D113
Shah, A. H., 1B62
Shah, A. K., 11E46
Shah, H., 9D140, 12E40
Shah, K., 11D250
Shah, M., 5D90, 9D235
Shah, M. H., 3E39, 6J42
Shah, N. V., 12D170
Shah, T., 10D11
Shah, V. D., 1D143, 12D170
Shah, V. P., 7D90
Shahangian, S., 1D156, 10D185
Shaikh, B., 4G24, 6C32
Shaikh, G. N., 5D11
Shalin, A. N., 11B30
Shalukhina, L. M., 7B103
Shalunov, B. Z., 8C3
Shamaev, V. I., 8B106, 10J122, 10J123
Shamai, Y., 5J155
Shamanova, I. N., 3B36
Shamanskii, V. A., 7C73
Shamel, L. B., 8D6
Shamis, J. D., 9H88
Shamov, A. I., 6J157
Shamsa, F., 7D150
Shan, X., 2B60, 8H96, 9H52
Shanbhag, V. D., 9D91
Shand, P., 2D91
Shanfield, H., 3F22, 4J58, 4J59, 5C24, 8J57
Shankai, Z., 12B21
Shankaran, P. S., 11B52
Shanks, C. A., 11D83
Shanmugasundaram, E. R. B., 10F10
Shann, F., 7D44
Shannon, G. M., 7G4
Shansky, R. E., 9J15, 11J18
Shantha, N. C., 12D128
Shao, P., 12E32
Shapilov, O. D., 2E52
Shapiro, S. S., 12D142
Shapkin, A. I., 9B91
Shapkin, V. A., 9J126
Shapkina, Yu. S., 9B160, 10A14
Shapovalov, M. P., 6B90
Shapovalov, V. A., 8C20
Shapovalova, E. N., 6B11
Shapovalova, L. P., 8C27
Shapshak, P., 4D255

- Sharaby, N. A., 3E43
 Sharafieva, M. K., 6H77
 Sharer, S. A., 9D122
 Shargool, P. D., 11D243
 Sharif-Zade, V. B., 5C5
 Shark, R. E., 8E64
 Sharlip, I., 2D228
 Sharma, D. K., 9B116, 12G11
 Sharma, K. D., 1B35
 Sharma, K. K., 9D230
 Sharma, K. N., 6B89, 10B70
 Sharma, O. P., 11D193
 Sharma, P., 2J112, 10J139
 Sharma, P. K., 2B15, 3G3, 5B178
 Sharma, R. P., 4D62, 10B50
 Sharma, S. K., 2D188, 10B142
 Sharma, S. N., 4C52
 Sharma, S. R., 3H69
 Sharma, V. K., 10B50
 Sharma, Y. N., 2C68
 Sharma, Y. P., 3G3
 Sharova, N. A., 11B8
 Sharpe, M. R., 10J83
 Sharples, W. E., 3J51
 Sharples, W. G., 11H2
 Sharrad, J., 11F11
 Shashkova, I. L., 7B88
 Shatunova, T. I., 7C4
 Shaarkina, V. S., 8C95
 Shaverdina, L. S., 12B183
 Shaw, B. R., 7D195
 Shaw, F. D., 8F23
 Shaw, I. C., 2D114
 Shaw, L., 12D238
 Shaw, M. A., 10D144
 Shaw, P. E., 3J10, 5F36, 11F38
 Shaw, R. W., jun., 1H3, 12C40
 Shchepilov, N. S., 1B111
 Shcherbakov, V. I., 4J116
 Shcherbakova, K. D., 11C29
 Shcherbakova, L. N., 6D49
 Shcherbina, A. O., 12B95, 12B96
 Shcherbina, A. N., 2E36, 6E40, 11E28
 Shcherbinina, N. I., 6H46
 Shea, P. A., 11D157
 Shearer, C. M., 3C16
 Shearer, J., 3J83
 Shearer, M. J., 10D246
 Shebalkova, Z. P., 11B170
 Sheedy, T. J., 9D189
 Sheehan, F. X., 8C57
 Sheehan, M., 1D207
 Sheela, C. P., 2D227
 Shefer, S., 8D114
 Shgeda, V. B., 1B65
 Shehata, F., 11B147
 Sheinker, A. P., 1C36
 Shelar, S. S., 4B97
 Shelepin, O. E., 12C31
 Shelikhina, E. I., 8B88
 Shelikhova, V. I., 7B149
 Shellenberger, M. K., 9D186
 Shelley, T. J., 3H9
 Shelly, A., 9E47
 Shelpakova, I. R., 4A6, 4B31, 5B135
 Shelton, J. I., 6J88, 8J59
 Shelud'ko, S. I., 12H3
 Shemarykina, T. P., 11B150
 Shen, C.-S. J., 4D174
 Shen, D., 5B117, 10D24
 Shen, G., 6J176, 6J183, 12E43
 Shen, G.-H., 6F36
 Shen, H., 5B145, 5B151, 6B97, 7B83, 8B73
 Shen, J., 10C53
 Shen, L., 3A15
 Shen, N., 1B28, 1B45, 1B132, 2B22, 3H74, 5B15, 8H98, 9B125
 Shen, R., 7B37, 7G12
 Shen, R.-S., 10D169
 Shen, X., 5B36, 5E51, 8B56, 10C70
 Shen, Z., 2H62, 9J40
 Shendrikar, A. D., 12H45
 Shenhav, N., 5A40
 Shepard, B. M., 10D134
 Shepeleva, S. V., 6B90
 Shepherd, J., 10D215
 Shepherd, J. N., 1D228
 Shepherd, P. T., 7A25B
 Shepherd, T. J., 11B77
 Shepilova, D. P., 4J121
 Sheppard, A. J., 4D174
 Sheppard, D. M., 9J78
 Sheppard, P. N., 3C44
 Shepperd, S., 6D229
 Sherrington, J., 5G23
 Sherins, R. J., 6D71
 Sherma, J., 7G31
 Sherman, F. B., 2D130
 Sherman, R. L., 2J97
 Sherman-Gold, R., 10P91
 Sherrell, B. J., 9D205
 Sherstina, V. N., 1B43
 Sherwin, J. E., 11D56
 Sherwood, P. M. A., 12J149
 Sherwood, R. A., 8D21
 Shestakov, V. A., 11B6, 11B8, 11B11
 Shesterova, I. P., 11E39
 Shetidesyatnaya, N. L., 10B156
 Shete, S. D., 9B108
 Sheth, A. D., 11J35
 Shetty, A. R., 11E16
 Shetty, H. U., 9D66
 Shevaleevskii, I. D., 7B62
 Shevchenko, L. D., 11B84
 Shevchenko, V. Ya., 8J5
 Shevchuk, I. A., 10B37
 Shevtsov, N. I., 4B195, 11B168
 Shi, B., 6J185
 Shi, D., 3D94
 Shi, H., 8B14, 8B112, 9B68, 10B60, 12B54
 Shi, P., 8B78
 Shi, S., 8B74
 Shi, X., 2B26
 Shi, Y., 3C66, 10B122
 Shiba, A., 10D186
 Shibalko, G. V., 1B25
 Shibamoto, T., 9G17
 Shibata, A., 8H33
 Shibata, H., 10J6
 Shibata, S., 1B161, 1D15, 2A17, 4B198, 6E24, 7B147, 8B113, 10C60
 Shibata, T., 7D55
 Shibukawa, A., 7J28
 Shibukawa, M., 6B10, 8J46
 Shibusawa, Y., 4D11
 Shichko, V. A., 4B55
 Shick, R. L., 1B162
 Shida, J., 8B81
 Shideler, R. W., 10J115
 Shields, B. J., 12D72
 Shields, J. B., 4F30
 Shiels, A., 8D256
 Shiffers, L. A., 5J109
 Shiga, M., 5B28, 5B59
 Shigematsu, A., 8D157
 Shigematsu, T., 8H58
 Shigematsu, Y., 12D122
 Shigeoka, S., 11E11
 Shigeta, Y., 6D165
 Shigetomi, Y., 3B15
 Shigezumi, T., 4J131, 10J78
 Shigina, E. D., 6B18
 Shih, J.-S., 2B40, 12B34
 Shihabi, Z. K., 4D325, 5J23, 12D52
 Shiina, Y., 9D263
 Shijo, Y., 5H62, 7H48
 Shikalova, I. V., 6J86
 Shikanov, A. E., 3B16
 Shikheeva, L. V., 3G7
 Shillabeer, P. K., 11D115
 Shilo, N. A., 5B52
 Shilov, Yu. M., 2E47
 Shilova, L. P., 9B46, 10B45
 Shim, B.-S., 9D210
 Shim, J.-S. K., 8D82
 Shimada, K., 2D64, 6D80, 7C38, 8D135, 9D88, 9D118, 10D126, 11D151, 12D138
 Shimada, Y., 2C34
 Shimanskaya, M. V., 5C28, 6A1
 Shimazaki, K., 9F33
 Shimicheva, N. A., 1B15
 Shimizu, A., 1D229
 Shimizu, C., 1E28, 7H44, 8H65
 Shimizu, K., 3E14, 6B31, 10D237
 Shimizu, M., 2D92, 4B35
 Shimizu, R., 11J109
 Shimizu, S., 3H64
 Shimizu, T., 5H62, 8J46, 9D101, 11D199
 Shimoda, M., 4F67, 10F58
 Shimoda, W., 7G22
 Shimode, M., 12J8
 Shimohigashi, Y., 3D208
 Shimokawa, Y., 3D266
 Shimomura, S., 5B68, 6B63
 Shimomura, Y., 9D126
 Shimura, Y., 2D34
 Shin, M., 11D228
 Shin, Y. S., 6D302
 Shinbori, Y., 6E27
 Shinde, B. R., 11E20
 Shinde, V. M., 2B35, 2B41, 6B88, 9B108, 11B51
 Shindo, J., 8A22
 Shingari, M. K., 6J99
 Shingbal, D. M., 9E44, 11E17, 11E34
 Shinkuma, D., 1E28
 Shinoda, A., 1D159
 Shinoda, M., 4E21
 Shinoda, T., 4H40
 Shinohara, Y., 8D70
 Shinpo, K., 1D131
 Shinriki, N., 10B25
 Shintani, H., 12D147
 Shioi, Y., 3D215, 7D207
 Shiokawa, S., 5J181
 Shiomi, K., 4D311, 11F2
 Shiomi, Y., 5D243
 Shioya, H., 4H25
 Shiozaki, T., 9H33
 Shiozaki, Y., 12D167
 Shipe, J. R., 4D121, 8D150
 Shipilov, A. L., 12J79
 Shirahama, K., 8E66
 Shirashi, K., 11J30
 Shirai, F., 4D39, 8D25
 Shirai, T., 2H12, 4H24, 5C69, 5J170, 6J49, 10H54
 Shiraishi, M., 10D237
 Shiraishi, N., 10H19
 Shiraishi, S., 8J35
 Shiralkar, N. D., 5F5
 Shirasaki, C., 6D22
 Shireman, R. B., 4D263
 Shirey, T. L., 10D1
 Shirk, J. S., 8J103
 Shirokov, B. S., 2J72
 Shirokov, V. A., 6D218
 Shiryayeva, M. B., 4B194
 Shiryayeva, V. E., 4J62
 Shishiba, Y., 2D195
 Shishido, J., 12J117, 12J118, 12J119
 Shishkov, A., 7A9, 12C37
 Shishov, V. N., 10B81
 Shivade, M. R., 2B41, 11B51
 Shivrini, G. N., 2B2
 Shivrini, E. M., 2B2
 Shkadova, V. I., 11E31
 Shkaravskii, Yu. F., 9B122, 10B98
 Shkinev, V. M., 2B59, 7B110, 11B118
 Shkola, N. N., 7B101
 Shkol'nikova, V. V., 9C48
 Shkurov, V. A., 11J29
 Shlafer, M., 10D134
 Schmidt, E. N., 11D114
 Schmidt, V. S., 5C2
 Schneider, L. A., 9B9
 Shnaeb, A. M., 2J79
 Shoef, N., 7C17
 Shoemaker, W. J., 11D185
 Shogano, N., 4D274
 Shoji, M., 10D187
 Shoji, T., 4B202
 Shokankova, H., 4C36
 Sholukhov, V. I., 5C65
 Shome, S. C., 4B44
 Shoniya, N. I., 11D7
 Shono, T., 2J110, 3C30, 5C3, 5J59, 6B24, 6J47, 8H97, 9B17, 10J136
 Shoolery, J. N., 10F68
 Shopov, D., 3J66
 Shore, D. L., 10B175
 Shore, L., 8J3
 Short, R. T., 2J119
 Shostakovskii, M. F., 3B65, 8C3
 Shotkin, S. H., 7F48
 Shotwell, O. L., 7G4, 12H40
 Shoukry, E. M., 7B119
 Shoukry, M. M., 7B119
 Shoup, R. E., 4D227
 Shpalya, I. I., 5C27
 Shpigun, L. K., 4J164, 7C7
 Shpigun, O. A., 4B18, 5B194, 6F65
 Shpikula, V. M., 4B49
 Shpilevskii, E. M., 10H23
 Shpring, I. A., 6B5
 Shrivastava, M., 4B52, 11B29
 Shrivastava, S. C., 7B122
 Shtan, A. S., 5B52
 Shtauberg, I. F., 4J90
 Shteinberg, G. A., 9B8
 Shtokalo, M. I., 5E39, 12F32
 Shu, S., 6C65
 Shugar, D., 3D263
 Shughart, L. C., 5D44
 Shuhara, A., 12J7
 Shuina, T. A., 11J136
 Shuker, D. E., 6D141
 Shukla, I. C., 4E39, 11E48
 Shukla, J. P., 11B62, 11B67
 Shukla, S. R., 11E48
 Shuler, S. E., 12D172
 Shul'ga, T. A., 8E83
 Shull, V. H., 10D76
 Shulman, S., 9H31
 Shuman, H., 10J80
 Shuman, L. M., 11G30
 Shumilin, S. S., 3J118
 Shurpalekar, K. S., 8F6
 Shurshalina, L. A., 8C3
 Shuter, O. M., 1B44
 Shutova, I. N., 3B48
 Shuvaeva, N. P., 2C69
 Shvangiradze, R. R., 3B6
 Shvartsman, S. L., 11B8, 11B11
 Shved, S. A., 3B96
 Shvedova, I. N., 5B213
 Shvelashvili, A. E., 7B46
 Shvengler, F. A., 7B103
 Shvets, F., 11C7
 Shvets, L. A., 6B174
 Shyshkova, L. O., 6E63
 Siard, P., 6D174
 Sibbald, A., 8D18
 Siber, G. R., 7D87
 Sickenberger, D. W., 5J136
 Siddle, K., 6D259
 Sidel'nikova, S. P., 1B43
 Sidenko, A. T., 5H35
 Sidenko, E. A., 1B65
 Sidenko, T. G., 11H77
 Sidom, V. M., 11J127
 Siderko, M. B., 6E55
 Sidhu, H. S., 4G37, 7C30, 12G11
 Sidhu, P., 10D75
 Sidki, A. M., 1D50
 Sidorenko, V. D., 4B92
 Sidorkina, K. P., 6B148
 Sidorov, R. I., 4J61
 Sidorov, Yu. V., 1C13
 Sieber, J. R., 1D33
 Siebers, J., 5G41
 Siebert, K. J., 8F55
 Sieburger, C. L., 8C96
 Sieckman, C., 12D108
 Siedel, J., 1D108
 Siefring, G. E., jun., 1D164

- Siegel, F. L., 4D308
 Siegerman, H. D., 8J120
 Siegmund, E. G., 11G38
 Sielicki, P. J., jun., 7G31
 Siemer, D. D., 6J125, 6J133, 9J91
 Sienkowska-Zyskowska, E., 10H74
 Siepe, V., 7F42
 Siegiej, R. W., 3J21
 Sierra-Marcuno, G., 12D74
 Siersema, W. J., 1J80
 Siest, G., 7D243, 8D2
 Sievers, R. E., 5H22
 Sievers, S., 6D212
 Sigg, L., 7H1
 Siggaard-Andersen, M., 3D18
 Siggaard-Andersen, O., 2D21, 3D18, 6D31, 10D19
 Signorella, A. P., 9D207
 Signorini, C., 7D42
 Sitar, H., 10D8
 Sikanen, P., 5J73, 5J74
 Sikorska, A., 4H55
 Sikorska-Tomicka, H., 2E51, 3B83, 5B264, 5C60, 10C49
 Sil, S., 10F71
 Silaeva, I. A., 6A14
 Silber, J. R., 8D238
 Silber, R., 1D198, 6D289
 Siligina, I. M., 12B187
 Silina, N. B., 9B46, 10B45, 11B21
 Silinskii, Yu. A., 5C65
 Silkey, J. R., 2G9
 Silman, R. E., 8D176
 Silva, M., 1B22, 6F47, 10B137, 10C27
 Silver, A. C., 4D198
 Silver, M. R., 10D166
 Silvis, P. H., 10F72
 Silvus, H. S., 2H57
 Sim, H., 10J116
 Sim, R. G., 4D282
 Simal, J., 7F77
 Simanovich, M. B., 9C88
 Simard, R. E., 9F22, 9F24
 Simecek, A., 7J4
 Simell, O., 5D175
 Simeonova, S., 4B132
 Simmonds, H. A., 4D296
 Simmonds, P. G., 12H84
 Simmonds, U., 11D11
 Simmons, W. H., 3D144
 Simon, B. M., 7H65
 Simon, C. E., 12H26
 Simon, I., 9D243
 Simon, L., 5J106
 Simon, M. G., 3F16
 Simon, P., 7C99, 11H23
 Simon, R., 2J59
 Simon, W., 1D14, 1J36, 2D13, 4D206, 4J33, 5J169, 6D185, 8J125, 10D28, 10J132, 12J154
 Simonenko, V. I., 3B90
 Simonetti, B. M., 3D273
 Simonian, M. H., 11D146
 Simonits, A., 2J100, 5B146, 8J115, 10J119, 11J118
 Simonoff, G. N., 12D47
 Simonoff, M., 12D47
 Simonov, V. G., 9J70
 Simons, D. S., 6J162
 Simova, M., 6E18, 11E5
 Simpson, C. F., 4J83B, 6J37
 Simpson, C. H., 4D61
 Simpson, D., 1J58, 10D49
 Simpson, D. L., 5E22
 Simpson, G. M., 9G14
 Simpson, R., 11D99
 Simpson, R. J., 3D189
 Simpson, W. R., 5H42
 Sinclair, A. H., 6G11
 Sinclair, F. M., 1D189
 Sindhwani, S. K., 1B118, 5B215
 Sindice, C. J. M., 1D168
 Sindu, R. S., 6B73
 Sine, H., 4D257
 Sinegre, M., 5E1
 Sinemus, H. W., 12B89
 Sinex, S. A., 9H37
 Sing, R. L. A., 4A22
 Singh, A. K., 2B14, 4B183, 12B167
 Singh, A. N., 9H15
 Singh, B., 11D218
 Singh, D., 4B66
 Singh, H., 2J30
 Singh, H. B., 1B117, 3H25
 Singh, I., 8F5
 Singh, J., 6B89, 10B70, 10E31
 Singh, K., 2B49
 Singh, K. D., 6G11
 Singh, M., 2J112, 7C30, 10J139
 Singh, N. P., 4D41, 7D29, 10D36
 Singh, O. V., 4B66
 Singh, R. B., 2B70, 4B176, 7B130
 Singh, R. P., 1B75, 1B118, 2B14, 2B77, 4B183, 6B73, 10B20, 10B164, 10B164, 12B167, 12J157
 Singh, S., 1B87, 12C58
 Singh, S. P., 4C103
 Singh, S. S., 10B26
 Singh, V. K., 3D249, 10D250
 Singhal, R. L., 6A6, 10B142
 Singhal, R. P., 7J12
 Singh Mudher, K. D., 11B58
 Singhvi, S. M., 10D103
 Singla, A. L., 1B36
 Singleton, J. A., 11D138
 Sinha, A. K., 8D114
 Sinha, A. P. B., 8B4
 Sinha, B. C., 5B60, 7B15
 Sinha, M. P., 11D9
 Sinha, P. P., 1B118
 Sinha, S., 7J92
 Sinhamahapatra, P. K., 6B155, 6B156
 Sinitsyna, V. I., 12J2
 Sinkule, J. A., 9D98
 Sinlao, D., 1D147
 Sinnema, A., 9E32
 Siouffi, A. M., 4D67
 Sioufi, A., 2D73, 5D78, 6D65, 8D69
 Sipila, I., 5D175
 Siripone, C.-I., 6D39
 Sirkov, V. N., 10C9
 Siroky, K., 8B19
 Sirotkina, E. E., 7C50
 Sirotkina, N. N., 8H26
 Siskos, P. A., 6B124, 6D196, 9D147, 11B41
 Sistovaris, N., 2D83, 2J39, 6D99, 6D110
 Sitar, D. S., 2D51
 Sitarum, B. R., 2D169
 Sittikov, A. M., 4J104
 Sittampalam, G. S., 7J39, 11D4
 Siu, K. W. M., 4J78, 7H49
 Sivaraman, C. P., 9H60
 Sizaret, P., 3D83
 Sizonenko, N. T., 7B160, 9B63
 Sizov, S. Yu., 8C48
 Sizova, G. S., 3C28
 Sizto, N. C., 4D72
 Sjodin, B., 7D123
 Sjoval, J., 2D123, 3D125, 6D187, 6D197, 12D136
 Sjut, V., 5G28
 Skabicheskaya, G. I., 12B93
 Skakum, W., 8E86
 Skalak, P., 8C28
 Skarping, G., 3C31, 5C49
 Skarstedt, M. T., 6D149
 Skatulokova, M., 11J143
 Skea, D. C. J., 8B24
 Skee, D. M., 5D92
 Skelding, D., 2D32
 Skellern, G. G., 2E41
 Skelly, J. P., 11D62
 Skelly, N. E., 9B102
 Skene, D. J., 8D176
 Skewes, L. M., 5C71
 Skibic, M. J., 5D57
 Skibina, V. V., 8E48
 Skinner, S. W., 10H14
 Sklodowska, M., 8D30
 Skofitsch, G., 6D114
 Skolmeistere, R., 6A1
 Skomorowski, M. A., 2D145
 Skopintseva, M. V., 12C77
 Skorepa, J., 2D144
 Skorko-Trybula, Z., 2B23
 Skorobogakov, B. S., 4J100
 Skoug, J. W., 1D105
 Skrabalak, D. S., 1J82, 4J32
 Skrebe, B., 11B143
 Skrinska, V., 6D170
 Skrinskii, A. N., 11J79
 Skripchuk, V. G., 7B3, 11B108
 Skripnik, N. A., 9B46, 10B45
 Skrobalkova, J., 5B139
 Skryabina, T. G., 11C40
 Skrylev, L. D., 4B86
 Skubiszewska, J., 3J56
 Skuratovich, A. A., 4E54
 Skursky, L., 11D107
 Skvortsova, L. I., 5B197
 Slaats, H. J. L. A., 3D124
 Slabyj, B. M., 4F32
 Slack, P. T., 5F8
 Slagle, I. R., 4B143
 Slais, K., 3J12, 7J19
 Slanina, J., 8J39
 Slater, G. P., 9H68
 Slater, R. W., 5H73
 Slatkin, D. N., 6D41
 Slavica, B., 4E16
 Slavicek, J., 3D107
 Slavin, G., 2D211
 Slavin, W., 4J113, 5D33, 8J89, 9J92, 10B17
 Slavinskaya, V. A., 8C48
 Slavov, V. I., 11B163
 Slayback, J. R. B., 11D102
 Sledzinska, B., 5J21
 Slee, P. H. T. J., 7D89
 Slemr, J., 9F21
 Slepushkin, V. V., 1B40, 5B8, 9B154, 12B12
 Sleszynski, N., 8J127
 Slickers, K., 4B63
 Slikker, W., jun., 10D105
 Slivinskii, E. V., 6C8
 Sliwka, I., 5J56, 7J67
 Sloan, H. R., 6D131, 6D132
 Slonawska, K., 1B146, 12H52
 Slonacker, P. J., 7C49
 Slover, H. T., 1J50, 3F34
 Slowinska, R., 8D251
 Sly, T. J., 3A13, 7C18
 Slyshenkov, V. S., 10D247, 12E33
 Smagunova, A. N., 5B263, 7A18
 Smail, G. A., 2E41
 Smail, M. C., 11D69
 Smakhtin, L. A., 3B48
 Smal, L. I., 7C56
 Small, C. W., 12D233
 Small, L. D., 8D75
 Small, M., 4D44
 Smalley, C., 2J63
 Smallwood, R. A., 7D92
 Smart, M. M., 9H54
 Smeaton, T. C., 1D190
 Smedes, F., 2A9
 Smerkolj, R., 2D54
 Smertina, E. A., 4J61
 Smets, F., 7F40
 Smidt, J., 8A21
 Smirnov, V. N., 4J88
 Smirnov, Yu. A., 11B61
 Smirnova, G. B., 6B125
 Smirnova, I. V., 11B1
 Smit, H. C., 3A20, 5A43, 8A14, 10A16
 Smit, S. C. C., 11F3
 Smith, A., 10D214
 Smith, A. E., 2G20, 11G30
 Smith, A. I., 11D183
 Smith, A. J., 12C66
 Smith, A. L., 2J128, 7D87
 Smith, B., 1J1
 Smith, B. E. F., 3C31
 Smith, B. F. L., 11G10
 Smith, B. J., 1D102, 7D128
 Smith, B. S. W., 4J161
 Smith, B. W., 6D36, 11J96
 Smith, C. A., 2J56, 7C45, 9C62, 12C53
 Smith, C. H., 1D137, 2D20, 12D8, 12D36
 Smith, C. M., 4D75
 Smith, C. W., 12B78
 Smith, D. B., 4D94
 Smith, D. C., 4J147
 Smith, D. H., 2J97, 12B72
 Smith, D. J., 8J71, 9E18
 Smith, D. L., 1H21
 Smith, D. M., 11C48
 Smith, D. S., 1D54, 4D196, 4D198, 5D155
 Smith, F. E., 12B140
 Smith, F. J., 6F25
 Smith, G., 6E45, 12E48
 Smith, G. A., 9B90, 9J122
 Smith, G. B., 12J142
 Smith, G. C., 10H76
 Smith, G. D., 10D11
 Smith, G. L., 1D17
 Smith, G. N., 9D144
 Smith, G. P., 9D244
 Smith, H., 12D154
 Smith, H. T., 9D96
 Smith, I. J., 11D47
 Smith, J., 2A18
 Smith, J. D., 8G15
 Smith, J. F., 8J67
 Smith, J. M., 12D60
 Smith, J. P., 9H31
 Smith, K. A., 7G39B
 Smith, K. J., 2D113
 Smith, M. C., 12J9
 Smith, M. J., 8D232
 Smith, M. M., 11J8
 Smith, M. R., 11D214
 Smith, N. J., 8D22, 9D29
 Smith, P. C., 11D70
 Smith, P. L. R., 2D121
 Smith, R., 7H26, 8H45, 9H39
 Smith, R. C., 10H81
 Smith, R. D., 6D140
 Smith, R. E., 1B109, 7C97, 7J46
 Smith, R. G., 1D65
 Smith, R. H., jun., 8A27
 Smith, R. L., 8D163, 12B2
 Smith, R. M., 3D111, 8B2, 8C54, 9D113, 10D56, 10F53, 10J24
 Smith, R. N., 1D37, 3D51, 9D40
 Smith, R. V., 8D68, 9C6, 10D153
 Smith, S. B., jun., 5J60, 5J90, 10J86, 11H44, 12J100
 Smith, S. J., 4H6, 12D238
 Smith, S. L., 6D53, 6J107, 11J64
 Smith, S. M., 9D149
 Smith, T., 2D38
 Smith, W. A., 11D108
 Smith, W. B., 10H7
 Smits, M. H., 4D81
 Smodis, B., 5C66
 Smola, J., 10B62
 Smola, U., 2F39
 Smolkova-Keulemansova, E., 9J57, 10J71, 10J72
 Smoll, D. B., 7J12
 Smolyakov, B. S., 10B129
 Smolyar, N. Ya., 8H25
 Smoorenburg, H. C. A. M., 9B59
 Smoot, L. D., 5B273
 Smyth, D. G., 9D195
 Smyth, M. R., 2H1
 Smyth, W. F., 2H1
 Smythe, L. E., 2J83
 Snape, C. E., 1C30, 9C62
 Sneddon, J., 2H8, 5B104, 5D32
 Snelling, G. F., 2J101
 Snellings, W. M., 1H19
 Snider, A. M., jun., 1C38
 Snider, B. G., 8D118

- Snider, J. B., 9H6
 Sniegowski, L. T., 12D150
 Snook, R. D., 5J101
 Snoswell, A. M., 9D184
 Snow, A. J., 10F36
 Snow, J. T., 12D106
 Snyder, F., 4D168
 Snyder, J., 2C10
 Snyder, J. K., 9J10
 Snyder, K. P., 7F58
 Snyder, L. R., 8J28, 10J43, 10J44
 Snyder, R. W., 6C44, 7C62, 8J105
 Soares, J. R., 12D67
 Sobiech, K. A., 8D251
 Sobkowicz, K., 5F11
 Sobolev, A. S., 10C68, 10C69
 Sobolev, V. S., 3G1
 Soboleva, E. F., 7B20
 Sochor, J., 10E38, 11E42
 Soczewinski, E., 5D178, 8E52, 9C27, 10H83
 Soda, K., 2C20, 7D124
 Soderberg, L., 3D201
 Soejarto, D. D., 10E16
 Soelling, H., 1D165
 Soerensen, H., 10D117
 Soerensen, J., 2H38, 6H58
 Soeterboek, A. M., 2D89
 Sofer, A., 6J4
 Sofoniou, M. C., 4C16
 Sofroniew, M., 5D187
 Sogabe, S., 9J134
 Sohr, H., 11H73
 Sohr, R., 1D60
 Soina, L. L., 1B167
 Soine, W. H., 8E64, 8G15
 Sojak, L., 7C33, 8C28, 12C8
 Sokolik, L. O., 7B95
 Sokolov, A. B., 3B55
 Sokolov, A. V., 9D86
 Sokolov, B. N., 9C1
 Sokolov, M. A., 9B94
 Sokolov, M. S., 11H71
 Sokolov, S. M., 10H23
 Sokolova, A. P., 7B148
 Sokolovskaya, L. A., 4B61
 Sokolowska, I., 8D38
 Sokur, N. P., 10B121
 Solak, A. O., 8B132
 Solans-Barri, M. D., 10D173
 Solar, A., 5J145
 Solberg, H. E., 7A13
 Solberg, J. H., 8D296
 Soldatova, S. S., 5H57
 Soldin, S. J., 7D52, 7D53
 Soleta, D. D., 3B43
 Solheim, E., 2F19, 7D243
 Soliman, R. F., 3E43
 Soliman, S. A., 11E43
 Solin, O., 11J120
 Solin, T., 9D37
 Sollenberg, J., 10H34
 Solms, J., 11F13
 Solntseva, Zh. P., 6B102
 Solob'eva, E. V., 4D98
 Solodovnikov, E. S., 5C65, 12J82
 Solomon, P. A., 11J2
 Solomonova, S. G., 11E52
 Solomons, E. T., 5D31
 Solomons, M., 7B38
 Solomons, N. W., 6D28
 Solovei, N. V., 6E57
 Solov'ev, A. A., 10B6, 11J4
 Solov'ev, E. A., 7B16
 Solov'eva, G. A., 11B170
 Solov'eva, I. I., 5J109
 Solov'eva, L. A., 5J109
 Solozhenkin, P. M., 7B10
 Soltes, L., 10D97, 11D89
 Soltys, J. S., 2D141
 Soma, Y., 4B17
 Soman, G., 5D241
 Somasekharan, K. N., 5C95
 Somer, G., 8B132
 Somerville, H. J., 10H93
 Somlyo, A. P., 10J80
 Sommer, D., 12J74
 Sommer, H. Z., 3C23, 9C93
 Sommer, J., 3H57
 Sommer, L., 3B25
 Sommer, R., 4J94
 Somova, T. N., 1B124
 Sondermann, C., 10F52
 Song, G., 6E20
 Song, Q., 1B45, 6B79
 Soni, K. P., 2C37
 Soni, S. K., 4E41
 Sonne, O., 8D178
 Sonneborn, M., 1H24, 3H29, 5H97
 Sonoda, T., 1C18
 Sonsalla, R., 8D137
 Sontag, G., 1J35, 2F39, 4J35, 8F41
 Sood, R. K., 4G37, 12G11
 Soos, G., 9D35
 Sopher, D. W., 3C64
 Sorantin, H., 10H29
 Sorbo, B., 4D226
 Sordi, C. E., 1D124
 Sorek, H., 6B70
 Sorel, R. H. A., 4J43
 Soreq, H., 4D319
 Sorger, D., 3D152
 Sorger, M., 5D16
 Sorgo, W., 5D156
 Soriano, M. J., 11D17
 Sorio, A., 6J82
 Soroka, K. E., 2D101
 Sorrentino, L., 3D22, 6D43, 6E21
 Sosulina, L. N., 11C40
 Sosulski, F. W., 9G10
 Sotera, J. J., 4J108, 9B155
 Sotnikov, E. E., 8J64
 Sotnikov, N. G., 5C50
 Sotobayashi, T., 4H62, 6J165
 Soto Calvo, M., 5B154
 Soto-Otero, R., 12D74
 Sotos, J. F., 4D190
 Sottolano, S. M., 12E65
 Soucek, J., 1C10
 Soukal, L., 5C106
 Soundararajan, G., 4B126, 6B76
 Souney, P. F., 9D162
 Sourek, R., 1G6
 Sourova, J., 3H71
 Soute, B. A. M., 11D204
 Souter, R. W., 8E53
 Soviar, K., 9E48
 Sowerby, B. D., 3B89
 Soyama, K., 1D221, 9D107
 Spacek, P., 10J21
 Spadaro, B., 8J70
 Spadaro, G., 10A23
 Spagone, C., 4D138, 5D110
 Spahn, H., 12D83
 Spalding, R. F., 11G15
 Spall, W. D., 3D190
 Spangler, G. E., 3J95, 5J136
 Sparapani, R., 11C21
 Sparks, B. D., 5C76
 Sparrow, J. T., 5D196
 Spasic, S., 4D15
 Spatz, H., 1D38
 Speaker, T. J., 5E34
 Spector, A. A., 6D178
 Speck, A. J., 8D225, 11F4
 Speer, K., 12F13
 Speich, M., 2D19
 Speier, L., 11D46
 Speir, T. F., 4D172
 Spencer, G. F., 9C89
 Spencer, K., 4D243
 Spencer, N., 1D228
 Spencer, T. L., 4F28
 Spencer-Peet, J., 8D15
 Sperling, K.-R., 4J114, 9B11, 12J90
 Sperling, M. A., 1D82
 Sperling, M. I., 1D82
 Spevackova, V., 5H53
 Spezzano, P., 7F59
 Spohn, J. A., 1D64, 2E13, 7D102, 7F49
 Spicer, C. W., 9H29
 Spickermann, W., 12H54
 Spiers, G. A., 4G9
 Spier, F. W., 10D7
 Spiess, A., 5F45
 Spikes, J. J., 5D30
 Spilker, B., 5D76
 Spillane, D. E. M., 6C53
 Spillman, T., 10D137, 12D134
 Spince, B., 5D218, 5D225, 7D225
 Spier, Z., 10D145
 Spirina, S. V., 3B94
 Spitsyn, E. M., 10J79
 Spitsyn, P. K., 5B80
 Spitsyn, V. I., 12B68
 Spitzer, T., 3H27, 7J24
 Spivakov, B. Ya., 1B73, 2B59, 7B110, 11B118
 Spoelstra, H., 10J152
 Spooner, B. S., 1D4
 Spooner, C. M., 6H5
 Sporns, P., 9F20
 Sporstoel, S., 2H52
 Spoto, M. M., 1D99
 Spragg, B. P., 3D128, 6D119
 Sprdlik, V., 10J59
 Sprenger, K. B. G., 2D22
 Springer, A. M., 4D142
 Springer, V., 9E48, 10B140
 Springolo, V., 8E31
 Springston, S. R., 3J62, 6J25
 Spruce, B. A., 9D193
 Spruit, F. J., 11J31
 Sprunck, H. P., 12D77
 Spurgeon, T. E., 12F17
 Spurlock, C. H., 12G5
 Spurny, K. R., 12H14
 Spyroudis, S., 11A17
 Squire, A., 3D95
 Srdanovic, M. K., 3A4
 Sreenivasan, K., 8D96
 Srikameswaran, K. I., 12H91
 Srimathi, M. S., 7F71
 Srinivasan, K. V., 3C34
 Srinivasan, R., 7J92
 Srinivasan, S., 10B157, 10G23
 Srinivasan, V. S., 8J122
 Srinivasarao, G., 10C29
 Srinivasan, K., 5B45, 10B103
 Srisukh, D., 6C25
 Srivastava, H. C., 11C73
 Srivastava, K. C., 2D140
 Srivastava, S. K., 3J107, 8B25, 10J135, 12J155, 12J157
 Srivastava, S. P., 4C53, 6B89
 Srivastava, T. S., 12D200
 Staat, H., 4A25
 Staats, G., 6B153, 11B139
 Stace, J., 7D44
 Stachelberger, H., 9F25
 Stachura, M. E., 7J6
 Stack, A. R., 10C66
 Stackhouse, C., 3C4
 Stadelmann, W., 7F42
 Stadnichenko, E. I., 4D98
 Staedele, M., 12B105
 Staerk, G., 12H32
 Stafford, G. C., jun., 2J61
 Stahel, O., 2J11, 10J35
 Stahl, D., 9F14
 Stahl, E., 2C57, 9J49
 Stahl, H., 5H4
 Stahl, R. L., 1D198, 6D289
 Stahlberg, R., 11B16
 Stahlberg, U., 2J80
 Stahr, H. M., 1G8
 Staib, W., 4D43
 Staiger, C., 6D129
 Staikkestad, J. A., 11D218
 Staley, M. J., 12D73
 Stall, W. J., 2D55, 3D35
 Stallings, J., 10D147
 Stamenov, J., 5H13
 Stammel, W., 5D166
 Stampfer, M. J., 10D217
 Stan, H.-J., 3F6, 6F14, 6F15, 8A12
 Stancher, B., 2F30, 3H68, 4F44, 12D217
 Stancu, R., 4C34
 Standards Association of Australia, 6B179, 6F40, 6F41, 6F42, 6F43, 6F44, 6F45, 6F46, 7B43, 9H24, 11B132, 11B133, 11B134, 11B135
 Stanga, F., 6F79
 Stangelberger, J., 6F27
 Staniek, H., 4H70
 Stanimirova, M., 6B109
 Stankevich, V. V., 12H89
 Stankewich, J. P., 2D56
 Stankiewicz, W., 2J68
 Stankoviansky, S., 3J42
 Stankovic, B., 7E41, 7E42
 Stanley, G., 3F9
 Stanley, K. K., 4J47
 Stanley, M. S., 4D315
 Stanley, P. E., 4J129
 Stanley, P. I., 6D144
 Stanton, P. G., 3D189
 Staples, E. J., 2J128
 Staprans, I., 5D119
 Stara, V., 7H63
 Starchevs'ka, N. K., 5E56
 Starchevs'kii, M. K., 11E28
 Starck, B., 2H36
 Stark, B., 7J124
 Stark, G. R., 9D234
 Stark, T. J., 6J89
 Starkova, M. M., 4C96
 Starobin, J., 11D231
 Starobina, I. Z., 9B9
 Starobinets, G. L., 11J124
 Starostina, A. K., 11E41
 Starska, K., 2C72
 Startseva, L. A., 7B140
 Starzynski, S., 3B17, 12B20
 Starzhkova, N. V., 1B126
 Stastny, J., 7D192
 Staszewski, R., 3C46, 7C41
 Statius van Eps, L. W., 9D161
 Statland, B. E., 10D2
 Staub, R. A., 6D156
 Stauffer, R. E., 3H46
 Stauggaitis, S., 4D255
 Stearns, S. D., 4J18, 12J23
 Stebbings, W. L., 9C69
 Stebunov, O. B., 6H96
 Stedman, D. H., 4H22
 Stedman, G., 5B164
 Steeb, S., 7J76
 Steedman, T. A., 7C80
 Steele, D. H., 6J79
 Steele, D. J., 6F6
 Steele, E. A., 4F1
 Steele, N. C., 3D169
 Steele, T. W., 8A8
 Steelman, M., 1D137, 12D36
 Steen, D., 5H11
 Steen, R. A., 7D113
 Steenken, I., 10C75
 Stefanac, Z., 4D206, 5G29
 Stefanec, M., 9D70, 10D90
 Stefanelli, C., 9B128, 11B7
 Stefanescu, E., 4E43, 4E45
 Stefanini, G., 1J1
 Stefanov, R., 9J73
 Stefanovich, A. A., 6B12
 Stefansson, U., 2E1
 Stefek, M., 10D97
 Steffan, I., 4H70, 5B118
 Steger, F., 10H29
 Steger, H. F., 2B27, 12B78
 Stiglich, F., 11B16
 Stegmann, H. B., 6B59
 Steigmann, W., 7J104
 Stein, E. A., 12D218
 Stein, R., 1J6
 Stein, R. J., 3D56, 8D32, 8D78
 Stein, S., 9D192, 11D190
 Stein, V. B., 10D112
 Stein, W., 5D239, 9D252
 Steinbach, G., 4D211
 Steinbrech, B., 5A7, 5B1, 6B7, 6B8, 11F34

- Steindel, S. J., 4J12, 6D9
 Steinecke, H., 4D58
 Steiner, I., 6F27
 Steiner, J. W., 2D25, 12D48
 Steiner, W., 11F30
 Steinigen, M., 5E18
 Steinwandter, H., 5F33, 6D136
 Stejskal, M., 1C23
 Steklac, M., 10H80
 Stella, R., 3B45, 11B23
 Stellar, S. M., 5D47
 Steller, M., 4C60
 Steller, W. A., 10F14
 Stellwagen, E., 4D238
 Stel'makh, M. F., 10J79
 Stelte, W., 8F47
 Stem, J., 6D223
 Stemmler, J., 5C63
 Stenberg, P., 7D73
 Stenberg, U., 4H44
 Stengel, E., 7F69
 Stengl, B., 3D86, 5G29
 Stenhammar, L., 8D181
 Stenina, N. I., 1B25
 Stenman, U.-H., 3D197
 Stenz, H., 3J30
 Stepan, R., 1J118, 5J165
 Stepanek, J., 10J59
 Stepanenko, V. V., 6E63
 Stepanosov, A. R., 1J176
 Stepanov, A. V., 4B92, 5B119
 Stepanov, V. M., 5D255
 Stepanova, I. K., 9H47
 Stepanova, L. I., 8B99
 Stepanova, T. V., 6B158
 Stephan, V. A., 6D242
 Stephanou, E., 11H78
 Stephant, E., 3D269
 Stephens, F. B., 12C81
 Stephens, G. C., 3H62
 Stephens, I. D., 5D87
 Stephens, K., 6J20
 Stephens, K. G., 12B82
 Stephens, N., 4D168
 Stephens, R., 4J89, 5J84, 9J98
 Stephens, R. J., 10D244
 Stephens-Newsham, L. G., 9J78
 Stepin, V. V., 1B126
 Stepniak-Biniakiewicz, D., 2B16
 Sterboul, J., 12D159
 Sterkhov, N. V., 9C2, 10J64
 Sterling, G. H., 8C99
 Stermitz, F. R., 9E3
 Sternson, L. A., 1D68, 2D107, 8C35, 8D160, 8E73, 12D98, 12D101, 12E59
 Stetskovich, L. A., 4B57
 Stetter, J. R., 1H10, 1J8
 Stetzenbach, K. J., 1H36
 Steudel, R., 9C43
 Steuerle, H., 11H2
 Steunenberg, H., 6J76
 Steup, A., 8D151
 Steven, F. S., 10D251
 Steven, M. D., 4G3
 Stevens, A. A., 9H75
 Stevens, B. J., 5D25, 12D33
 Stevens, J., 3D264
 Stevens, J. F., 5D214, 12D229
 Stevens, R. A., 4F31
 Stevens, R. K., 1H3
 Stevens, T. S., 1J30, 7G28, 9J37
 Stevens, V., 1D146
 Stevenson, G. W., 6D16
 Stevenson, J. M., 9A22
 Steverink, A. T. G., 6J76, 8D115
 Stewart, D., 3D10
 Stewart, D. A., 6B95
 Stewart, G., 11J121
 Stewart, J. M., 5D188
 Stewart, J. T., 1E10, 2D99, 3E39
 Stewart, K. K., 7J11
 Stewart, K. R., 8E36
 Stewart, L. E., 7F90
 Stewart, M. J., 5D95
 Stewart, P. M., 1B7
 Stewart, P. S., 7D206
 Sthapit, P. R., 6D42
 Stich, K., 9D247
 Stierle, U., 4D154
 Stifatos, B. M., 11B5
 Stijve, T., 10D73
 Stillwell, R. N., 3C1
 Stinger, G., 1J91, 7B11, 7J102, 11B90, 12B184
 Stirati, G., 3D273
 Stirks, O., 9J129
 Stirm, S., 3D93
 Stiso, S. N., 4D72
 Stitt, B. D., 10H15
 Stix, U., 11B40
 Stobaugh, J. F., 8D160
 Stobbaerts, R. F., 1F3
 Stobbs, W. M., 5J68
 Stock, W. D., 5G14
 Stockdale, R. E., 4D306
 Stockhausen, H., 7D152
 Stockigt, J. R., 1D146
 Stockman, H. W., 5B250
 Stockwell, P. B., 5J89
 Stoddard, L., 8D206
 Stodola, J. D., 10E21
 Stodola, P., 5B162
 Stoeber, W., 1J123
 Stoecker, M., 12C42
 Stoelzel, G., 7D244
 Stoeppler, M., 6J130, 12D24, 12D27, 12D31, 12D38, 12H5, 12H6
 Stoeri, M., 11H2
 Stoffels, J. J., 7J97
 Stohs, S. J., 2D100, 4E53
 Stoicescu, D., 1B78
 Stojadinovic, L. V., 5D189
 Stojanov, M., 6D290
 Stojanovic, M., 11J146
 Stojanovic, V., 5D149
 Stoker, R. J., 8D205
 Stokes, B. J., 9C62
 Stokes, J. B., 10D151
 Stoklosa, J. T., 3C16
 Stoklosa, H., 8H46
 Stoks, P. G., 4D179
 Stoloff, L., 5H98B, 12F19, 12F24
 Stolyarov, K. P., 3B88, 3H7, 3J74, 4B40, 4B165, 5J109, 6B67
 Stolyhwo, A., 3J26, 12J32
 Stone, B. A., 12D113
 Stone, B. E., 11D109
 Stone, L., 1D39
 Stone, P. C. W., 6D245
 Stoner, R., 12D231
 Storesund, H. J., 9E39
 Storey, G. C. A., 12D91
 Storziko, V. E., 9B135
 Stork, G., 5A34, 5A35, 12H54
 Storozhenko, V. N., 11J139
 Stott, F. H., 2J89
 Stottmeister, E., 11H31
 Stout, D. A., 9B5
 Stout, S. A., 10D82
 Stout, S. J., 10F14
 Stoute, V. A., 12F7
 Stover, E. L., 12H79
 Stover, F. S., 6J53
 Stoyanov, K., 9B21
 Stoyanova, I. V., 9B129
 Stozhko, N. Yu., 11H48
 Strachan, M. G., 11C19
 Strachan, W. M. J., 9H66
 Straczek, J., 6D203
 Stradling, R. S., 1J86
 Stradnieks, S., 9D148
 Stradnonskii, V. B., 11H54
 Strahler, J. R., 3D195
 Straka, M. R., 5B216
 Stramentinoli, G., 10D114, 11D175
 Stranahan, J. J., 5C4
 Strand, M., 2D204
 Strandbergh, D. R., 12D112, 12D133
 Stranel, O., 10J20
 Strasberg, P. M., 2D145
 Strasburger, C. J., 7D8
 Strasheim, A., 8J84
 Strasser, V. A., 10J129
 Straszheim, W. E., 5C78
 Strate, R. G., 10D73
 Stratis, J. A., 10B165, 11B68
 Straub, K. M., 4D180
 Straube, E., 9D5
 Strauss, E.-M., 9C43
 Strauss, G., 7F41
 Strauss, H., 11B79
 Stray, H., 6H37, 9H32
 Streckert, H. H., 9B55
 Street, H. V., 3J57
 Street, K. W., 8H78
 Strehler, C., 12D159
 Strelow, F. W. E., 4B180, 8B117
 Stremmler, J., 10J68
 Stridsberg, M. I., 2D69
 Strife, R. J., 8D120
 Strike, P. W., 5D55
 Stril'chuk, L. V., 2J9
 Stringham, R. W., 4G17, 4G30, 12G12, 12G13
 Strniskova, V., 7G26
 Strocchi, A., 5F57
 Strocchi, E., 2D111
 Stroemme, J., 12D238
 Strojek, J. W., 3A18
 Strokova, T. P., 9C48
 Stromberg, A. G., 1J116, 4J171
 Stromberg, L., 3E32
 Strottmann, J. M., 4D238
 Strow, L. L., 10H21
 Strub, H., 12D159
 Struessmann, A., 4D256
 Strukova, I. M., 11B144
 Strunin, L., 8D50
 Strunk, D. H., 4F74
 Strupp, D., 4G39
 Struve, M. F., 8D235
 Stryd, R. P., 10D94
 Strydom, E. S. P., 11F3
 Stryjewska, E., 5B46
 Strzegowski, W. R., 12B180
 Stuart, J., 6D245
 Stuart, R. C., 4D32
 Stubblefield, R. D., 7G4
 Stublar, M., 2D100
 Stuchlik, J., 8E14
 Studnicka, H., 7J104
 Studts, D., 4D89
 Stuhlsatz, H. W., 1D84
 Stulik, K., 1G6, 5B171, 10J41
 Stull, R., 12D154
 Stults, J. T., 3J93, 7J70
 Stumm, W., 7H1
 Stump, D., 3D69
 Stump, D. D., 10D135, 11D222
 Stumpe, L. A., 2G8
 Stumpe, R., 10B69
 Stur, J., 11A29, 11A30
 Sturgeon, R. E., 4A9
 Sturgeon, R. J., 3D275
 Sturis, A., 4B113, 5B148
 Sturis, A. P., 4B22, 10B90
 Sturrock, P. E., 7C92, 12C32
 Stutts, K. J., 7J121
 Stuurman, H. W., 1C3
 Styrelis, I., 1D121
 Su, B., 12J159
 Su, F., 5B42
 Su, Y., 12J162
 Su, Y. S., 8B68, 12B180
 Suarez, M., 10B5
 Subbaian, M., 4B126, 6B76
 Subba Rao, C., 11B53
 Subert, J., 3E1, 5E2
 Subrahmanyam, K., 1B81, 1E33, 12E54
 Subramaniam, B., 5H23
 Subramanian, G., 5C84, 7B12, 7B109
 Subramanian, K. S., 2D24, 9H38, 9H40
 Subramanian, M. S., 11B62, 11B67, 11B83
 Subramanian, R. V., 5C95
 Subramanian, T. A., 6B154
 Such, V., 1J44
 Sucha, L., 4H26
 Suchanova, V., 3H71
 Suchkova, G. Ya., 9B183
 Sucker, H., 1E44B
 Suckow, R. F., 5D69
 Succipira, M. S., 6D223
 Sudan, B. J. L., 12D159
 Suddendorf, R. F., 1D17
 Sudera, O. A., 1F15
 Sudershan, 11D232
 Sudo, M., 12D122
 Sudol, J., 8J114
 Sudraud, G., 8G3
 Sudraud, P., 6F18
 Sueki, K., 8B22
 Suelter, C. H., 7D189
 Suess, E., 6H60
 Suetaka, W., 8J68
 Suga, K., 11D211
 Suga, T., 6D96
 Sugahara, K., 11D210
 Sugai, T., 1B12
 Sugano, H., 9D198
 Suganuma, T., 12D86
 Sugata, S., 3D257
 Sugawara, M., 2B74, 5J182, 6B129
 Sugawara, Y., 3D212
 Sugden, E. A., 2F14
 Sugie, T., 9D126
 Sugimoto, A., 8B81
 Sugimoto, I., 1D70
 Sugimoto, K., 11D210
 Sugimoto, S., 8C23
 Sugimoto, T., 12D223
 Sugimoto, Y., 4C62, 4C63
 Sugimura, Y., 5H79
 Sugino, K., 8H69
 Sugitani, A., 1F12, 4F49, 11D100
 Sugitani, Y., 10C86
 Sugiura, A., 6F58
 Sugiura, M., 5D251, 8D41
 Sugiyama, M., 7D253
 Sugiyama, S., 5D97, 9D126
 Sugizaki, M., 4D45
 Sugnaux, F. R., 4J32
 Suh, I. S., 9B76
 Suidan, J. S., 2D11
 Suissa, M., 4J48
 Sukatsch, D. A., 10D258
 Sukagawa, K., 9F33
 Sukhan, V. V., 4B48, 4B163, 10B72
 Sukharev, N. P., 1J115
 Sukhareva, Z. I., 1H26
 Sukhomlin, R. I., 12F32
 Sukhomlynov, O. K., 6E13
 Sukhoparova, V. P., 11H71
 Sukhoruchkina, A. S., 11H77
 Sukhoverkhov, V. F., 4B139
 Sukkel, J. T., 6H29
 Sulaiman, A. M., 8G10
 Sulaiman, S. M., 9D92
 Sulaiman, S. T., 4E56, 11B88, 11D167
 Sulim, V. V., 3B108
 Sullins, R. T., 1J93, 1J94
 Sullivan, B. P., 5B21
 Sullivan, J. F., 4C5
 Sullivan, J. J., 3F16
 Sullivan, L. J., 1H19
 Sullivan, P. A., 9D38
 Sultan, S. M., 1B7
 Sumina, E. G., 4B110
 Sumiya, E., 3J14
 Summer, J., 10D261
 Summers, R. J., 11D159
 Sun, B., 9C32
 Sun, F., 8A4
 Sun, H., 8E13, 9B109
 Sun, J., 5H48, 9J100
 Sun, L.-Y., 10D22
 Sun, M., 8B36
 Sun, P.-J., 11B114
 Sun, Q., 10B47
 Sun, S., 2G27, 8B56
 Sun, W.-F., 7J110

- Sun, Y., 8B33, 8B129, 12D39
 Sun, Z., 12B40
 Sun, Z. L., 7J49
 Sunada, K., 4D80
 Sunaga, H., 8D177
 Sunanda, Y., 9J44
 Sundarase, K. M. S., 8G17
 Sundararajase, R., 2G24
 Sundaresan, M., 10B56
 Sundelin, J., 6D247
 Sundholm, E. G., 2E3
 Sundstrom, G., 12D109
 Sundvall, S.-B., 5C79
 Sung, N. J., 11B56
 Sunila, P., 4C73, 6J108
 Sunol, C., 1D132, 8D154, 11D156, 11D165
 Sunshine, I., 11D42
 Suon, K., 9F14
 Suoriti, T., 2F12
 Supatahvil, G., 12H59
 Suphachearabhan, S., 1E24, 3D43, 10D89
 Suprunovich, V. I., 7B113, 8B120, 11H77
 Supryniewicz, Z., 3J19, 10D128, 10J22, 10J23, 10J27
 Suranova, A. V., 9D39
 Suratman, J. B., 6C6
 Suri, S. K., 11A16
 Surkyn, P., 2B89
 Surmann, P., 5J35
 Suroegin, A. L., 9H42
 Suryanarayana, M. V. S., 1B81
 Suryanarayanan, R., 9E58
 Sus, F., 5B122, 5B123
 Susaki, H., 6J113
 Suslina, T. G., 6B141
 Sutcliffe, N., 5D21
 Suter, G. W., 5J108
 Sutfin, T. A., 10D93
 Suthermer, C., 11D42
 Sutherland, I., 2B5
 Sutherland, I. A., 9J14
 Sutherland, J., 9J82
 Sutherland, J. D., 8D143
 Sutherland, N., 12H77
 Sutherland, R., 10D210
 Sutscover, E., 11C39
 Suttie, J. W., 3D239
 Sutton, J. G., 1D197, 4D306
 Suwa, I., 12D124
 Suwabe, M., 8D25
 Suzuka, T., 12D102
 Suzuki, A., 2D78, 10D213
 Suzuki, E., 6D194
 Suzuki, F., 12D29
 Suzuki, H., 3J77, 6B173, 8B109, 10D213, 10F51
 Suzuki, I., 2A16
 Suzuki, J., 2H55, 3H56
 Suzuki, K., 4D336, 5J170, 6B164, 6J49, 12C4
 Suzuki, K. T., 3D191, 8D177
 Suzuki, M., 1F11, 8E32, 9B159
 Suzuki, N., 7B2, 10D46, 10J26, 11B123, 11D208, 12B3
 Suzuki, O., 1D136, 2D215, 4D36, 6D102, 11D238
 Suzuki, S., 1F13, 2D160, 2D161, 2H55, 2J114, 3C47, 3D62, 3D63, 3H56, 3H64, 4H75, 5B188, 5D4, 5D118, 5D202, 5H27, 5H60, 5J181, 6D151, 6J64, 7B129, 7J130, 8D110, 8D200, 8D201, 8H17, 9J134, 10D96, 10E28, 10H62, 11C10, 11D81, 11D123, 12D82, 12E24
 Suzuki, T., 8D25, 9D272, 10J110
 Suzuki, T. M., 5B203
 Suzuki, Y., 1C14, 1J109, 4B159, 4C55, 5H79, 6D318, 8F22, 12F10
 Svanberg, L. R., 11D191, 11D192
 Svanberg, S., 3H11
 Svanborg, K., 4D166
 Svarcs, E., 9B53, 11B143
 Svardala, L., 5B239
 Svatek, E., 10E11
 Svec, A., 1J121, 3J41
 Svec, F., 4C35, 5J57
 Svec, H. J., 2G2, 12B21
 Svechnikova, A. E., 10B148
 Svechnikova, E. A., 1B126
 Svedas, V., 9D177
 Svediene, N., 6B132, 9D177
 Svehog, S.-E., 6D251
 Svehla, G., 7B137
 Svendsen, P. A., 9D231
 Svenson, M., 3D229
 Svensson, L., 9B126, 10D143, 12C75
 Sverdllova, S. I., 9C84
 Svetlik, J., 1C34
 Svetlova, V. N., 3B112
 Svinchuk, V. S., 3D39
 Svintsova, L. D., 3J118
 Sviridenko, Zh. V., 1B65
 Sviridov, V. V., 12B52
 Svirshchetskaya, G. G., 1B140
 Svistov, P. F., 7H34, 10H48
 Svistunova, G. P., 1J10
 Svoboda, J., 7J4
 Svoboda, K., 10H28
 Svoboda, M., 5J82
 Svoboda, Z., 7F92
 Svobodova, X., 5J82
 Swahn, C.-G., 10D160
 Swaidan, H. M., 5B4, 8J91, 9J103
 Swailem, F. M., 6J170
 Swaisgood, H. E., 6F50
 Swami, S. S., 4D242
 Swan, J. S., 1D122
 Swannell, A. J., 3D77
 Swanson, L. W., 3J90
 Swanson, S. P., 2D117
 Swart, P. K., 9B88
 Swarts, E. L., 1B162
 Swartzlager, D. G., 9J117
 Swarup, R., 10B68
 Sweeley, C. C., 6D147
 Sweeney, W., 5D50
 Sweet, T. R., 3B11
 Sweetman, B. J., 12D76
 Sweetman, J. A., 2H28
 Swelem, N. Z., 10E9, 10E13
 Swenters, K., 9J112
 Swergold, G. D., 1D160
 Swczey, C. B., 4A17
 Swiderska, K., 2B63
 Swift, C. E., 12F14
 Swinehart, B. A., 8B61
 Swingler, D. L., 6B28
 Swinkels, D. A. J., 11C46
 Swonger, A. K., 4D32
 Swynnerton, N. F., 3D76
 Syanava, E. M., 2J18
 Sybilska, D., 7C11, 7C37, 9D188, 10C40, 10J72
 Sykes, R. B., 6D67
 Symanski, J. S., 1H9
 Symons, R. G., 3D154
 Symons, R. K., 2H69
 Synovec, R. E., 7J33, 9J33
 Syoyama, M., 3H66
 Sysmalainen, M., 4E47, 4E48, 10E23
 Syssoeva, L. P., 12H74
 Syty, A., 4H82, 7F87, 10E18
 Szabo, E., 11J118
 Szabo, G., 12D17
 Szabo, L., 6F81
 Szabo, V., 5C55, 10C46
 Szajani, B., 7D178
 Szakacs-Pinter, M., 2C21, 4C41
 Szalo, A., 5B37
 Szaploneczay, A. M., 6B171
 Szarvas, T., 2D132
 Szasz, G., 2E26, 5E25
 Szasz (nee Zacsco), M., 2E10
 Szatloczky, E., 2D132
 Szawelski, R. J., 10D256
 Szczepaniak, W., 6J180, 8B38, 9B110
 Szczepanowska, E., 7G10
 Szczepanowska, W., 5C112
 Szczepanska, T., 10B54
 Szebenyi, N., 5C38
 Szederkenyi, F., 10C50
 Szefler, S. J., 9D57
 Szegedi, S., 10B114
 Szejtli, J., 2J51, 5E12
 Szekely, A., 10C58
 Szekelyhidi, L., 1B80
 Szelejowski, W., 5C25
 Szepesi, G., 3D241
 Szeto, S. Y., 9G25
 Szigeti, J., 9D222, 12E9
 Szjarto, L., 3F18
 Szilasi, M., 5E12
 Szili, E., 6F81
 Szittner, R. B., 3G23
 Szivos, K., 12B48
 Szkarlat, A. C., 11H14
 Szmich, J., 8C72
 Szokan, G., 10E41
 Szopa, M. E., 2E52
 Sztraka, A., 12H97
 Szucs, M., 11C35
 Szumilo, T., 10E40
 Szurley, E., 5E52
 Szutowicz, A., 11D236
 Szymanska, K., 10J27
 Szymczyk, W. M., 6J114, 6J168, 6J169, 6J172
 Szymczynski, G. A., 4D143, 4G36
 Szynekarczuk, I., 5B12
 Szyper, M., 9E42
 Tabacik, C., 4D176
 Tabata, M., 5D171, 11C10
 Tabata, R., 6D318
 Tabatabai, M. A., 3H30, 6G13
 Tabet, J.-C., 4J152, 9F14, 10J114
 Taboryska, B., 10J137
 Tachibana, K., 2D207
 Tachibana, M., 5C56, 8C43, 8D20
 Tachibana, Y., 9J99
 Tachizawa, M., 7E14
 Tada, M., 2D179
 Tada, S., 9D124
 Tada, Y., 6J48
 Tadano-Aritomi, K., 6D175
 Taddia, M., 9B190, 11B72
 Taddos, F. S., 12J166
 Taddos, N. B., 8E85
 Tadrus, R., 3D31
 Taeymans, Y., 9D84
 Taga, M., 1D28, 3H40, 4D52, 5C33
 Tagami, S., 4E57
 Tagari, P. C., 8D153
 Tagashira, S., 10B53
 Tagawa, K., 8J35
 Tagil'tsev, A. P., 5B55
 Tagintseva, G. P., 7B20
 Taguchi, M., 4E21
 Taha, A. M., 6E38
 Tahara, K., 6C7
 Tai, B., 8E25
 Tai, H., 8H83
 Taimr, J., 9C29
 Tait, W. H., 9A32
 Tajic, M., 6D192
 Tajima, K., 8D91
 Tajima, M., 11H35
 Takabatake, E., 8F27, 12F18
 Takacs, J. M., 2J40
 Takada, N., 1C18
 Takada, S., 4H40
 Takada, T., 11H9
 Takadate, A., 6C7
 Takagi, H., 5F16
 Takagi, M., 5B59, 6B28
 Takahagi, H., 9D47
 Takahashi, A., 7H41
 Takahashi, C., 9B113
 Takahashi, H., 2D26, 7F85, 11B125, 12J113
 Takahashi, K., 2D207, 3E9, 3E11, 4E17, 4H25, 11D244
 Takahashi, L. T., 7E33
 Takahashi, M., 5D118, 6D151, 8J18
 Takahashi, N., 1G10
 Takahashi, S., 5D100, 9D68, 11D251
 Takahashi, T., 10B25
 Takahashi, Y., 1D229, 8C49
 Takahata, J., 9D272
 Takai, K., 4D224, 8B98
 Takami, T., 4D187
 Takano, J., 6H32
 Takano, S., 5C82, 5C83
 Takano, T., 8F34
 Takao, K., 11J39
 Takaoka, M., 2D234
 Takase, K., 9D129
 Takashima, Y., 2H47, 3H48, 10H19, 11B18
 Takasugi, M., 2C6
 Takata, Y., 7D155
 Takatori, T., 7D121
 Takatsu, A., 9F31
 Takayama, H., 12D124
 Takayama, N., 12D81
 Takayama, S., 8C81
 Takayama, Y., 8J62
 Takayanagi, M., 10D224
 Takazono, I., 12D117
 Takeba, K., 8F37
 Takeda, F., 5D161
 Takeda, N., 7H9, 12F20
 Takeda, R., 3D120
 Takeda, T., 7D237, 8D242, 9D255, 11D217
 Takeda, Y., 6B39, 7D204
 Takei, H., 1D56
 Takei, S., 4J69
 Takemi, H., 9D73
 Takemori, K., 6D21, 6D22
 Takemoto, H., 9B127
 Takemoto, Y., 9D263
 Takenaka, T., 12B6
 Takeo, T., 6F69
 Takeoka, G., 11J53
 Takeshima, S., 5D226
 Takeshita, R., 11B92
 Takeshita, Y., 8C5
 Takeuchi, E., 2B34
 Takeuchi, M., 1B128
 Takeuchi, N., 6D280
 Takeuchi, T., 2J8, 2J16, 3D122, 4J16, 6D198, 6J30, 6J32, 7D151, 7J17, 7J24, 8D43, 8D168, 8J20, 8J23, 9D182, 10J18, 11J26, 12D230, 12J20, 12J33, 12J55
 Takeyama, S., 1B91, 1B128, 2B71, 4B202, 10B80
 Takitani, S., 7F19
 Takiue, M., 6J173
 Takiyama, R., 9D73
 Takizawa, N., 6D294
 Takizawa, T., 4B181
 Takla, P. G., 3E49
 Takubo, Y., 12J117, 12J118, 12J119
 Talalaev, B. M., 7B157, 9J83
 Talati, A. M., 11J35
 Talbot, T. D., 3D274
 Talipov, Sh. T., 3B47, 4B53, 5B85, 11E39
 Tal'kop, R. R., 3B78
 Tallant, M. J., 7G20
 Talle, M. A., 12D175
 Tallet, F., 3D102
 Tallman, D. E., 5J38
 Talomsin, R., 2D169
 Talpay, B., 6C51
 Talsky, G., 1H2
 Talwar, D., 10B142
 Talymbova, A. K., 9B62
 Talypina, O. P., 1B138
 Tam, T. M., 8B30
 Tamai, K., 8H99
 Tamai, M., 5D254

- Tamaki, S., 4B159
 Tamamura, F., 5D145
 Tamari, Y., 9H48
 Tamase, K., 9F17, 11D24, 12H67
 Tambi, S. B., 10E27
 Tammilehto, S., 10E23
 Tamminga, Y., 4B203, 12J130
 Tamura, H., 1B71, 2J110
 Tamura, N., 2D161, 6E27
 Tamura, R., 1H8
 Tamura, T., 2A16
 Tamura, Z., 4D205, 4D209, 9D65
 Tan, B., 12B94
 Tan, D., 9E17
 Tan, F., 4B89
 Tan, G., 6J175
 Tan, H. S. I., 2E52
 Tan, K., 6B130
 Tan, L., 3D156
 Tan, S., 6F22, 7F28, 7F35, 8F14
 Tanabe, H., 4H75
 Tanabe, K., 2A16, 8A16, 9J104
 Tanabe, S., 1D19
 Tanaka, A., 11D25
 Tanaka, F., 6H14
 Tanaka, H., 1B102, 4F6, 8H68, 11B106
 Tanaka, K., 2D129, 2D202, 2H67, 4D161, 4H83, 6B37, 7J114, 8F24
 Tanaka, M., 1D173, 1J38, 3C30, 3D257, 5C3, 5H28, 5J59, 6B24, 7C38, 8H97, 9D88, 9D129, 12D138
 Tanaka, R., 7F4, 7F6, 10J46, 11F1
 Tanaka, S., 1D141, 2C32, 4B125, 4C94, 5C33, 5H61, 8H15, 8H18, 9C33, 9C58, 12J110
 Tanaka, T., 1B98, 1B102, 4J125, 6H67, 8B80, 9B189, 12D243, 12J101
 Tanaka, Y., 3D191, 4D11, 4D170, 7C91, 7F6, 9D170, 12D117, 12D191
 Tananaiko, M. M., 4B169, 9E46, 11A9, 12B22, 12B51
 Tandon, S. G., 7C40
 Tandon, S. N., 4B66
 Taneja, A., 3D162
 Tanfani, F., 11F20
 Tang, D., 2B54
 Tang, F., 3B28, 5A4, 5B36, 5H91, 12H57
 Tang, J., 6F36
 Tang, M., 5C4, 12B40
 Tang, S., 7B98
 Tang, T., 8B103
 Tang, Y., 8B89, 10B66
 Tang, Y. S., 12J70
 Tangendjaja, B., 3D82
 Tangerman, A., 1D81, 5D125, 9D75
 Tani, K., 1C14
 Tani, M., 3D244
 Tanida, K., 1H7
 Tanida, N., 3D125
 Tanigawa, K., 3G18, 7G37, 8G14, 9F17, 11D24, 12H67
 Taniguchi, K., 9D126
 Taniguchi, N., 4C81
 Tanihara, K., 8H99
 Tanimura, A., 7F14, 8F7
 Tanimura, T., 1D167, 8D168
 Taniuchi, T., 5B130
 Tannenbaum, S. R., 6D141
 Tanner, H., 5F52
 Tanner, R. L., 3H26
 Tanzi, M. C., 10J56
 Tao, B., 9D108
 Tao, H., 8B12, 8H47, 10B102
 Tao, R., 6C21
 Taobi, A. A. H., 9J102
 Tapang, M. A., 3D194
 Tapin, P., 6D160
 Tapino, R., 7D97
 Tappa, R., 6J36
 Tappolet, J. A., 4C98
 Tapuhi, Y., 10D254
 Tarafdar, S. A., 6H52, 11D12
 Taran, R. I., 9B181
 Taran, Yu. N., 4B157
 Taranova, N. V., 11C40
 Tarasova, N. I., 5D255
 Tarasova, O. N., 5D84
 Taraszewski, W. J., 9A25
 Tarayan, V. M., 7B136, 12B165
 Targa, G., 7E34
 Tarhanen, J., 11C17
 Tarjan, G., 2J40
 Tarli, P., 4F26
 Tarmure, C., 9J39
 Tarnowski, D. K., 4D262
 Tarnowski, S. J., 4D262
 Tarroni, G., 10D9, 10J150
 Tarter, J. G., 4C6, 6B137, 7B104
 Tarui, S., 12D240
 Tarutani, T., 6B128
 Taschler, A. F., 12C82
 Tashchyan, M. Z., 9J140
 Tashima, M. K., 2H22
 Tashiro, K., 5C91
 Tashiro, T., 6D277
 Tasker, R. A. R., 1J25
 Tassi, L., 7C35
 Tassi Micco, C., 4F26
 Tasumi, M., 2A16, 12J112
 Tataru, T., 5D132
 Tatarinov, S. I., 4C102
 Tatarukin, M. A., 4B194
 Tataruch, F., 9D241
 Tate, W. P., 7D248
 Tatemoto, K., 2D181
 Tatevosyan, A. A., 3C26
 Tatsuzawa, M., 4E33
 Tat'yan, B. B., 7B18, 8B7
 Taub, H., 5D109
 Taubert, W., 10D196
 Tauchert, H., 5C14
 Taupe, A., 6B161
 Tauscher, B., 12D77
 Tautz, D., 3D226
 Tavadyan, A. S., 4B53
 Tavakkol, A., 2D159, 7D154
 Tavlarides, L. L., 9J5
 Tawa, R., 5D226
 Tawakkol, M. S., 6E49
 Tay, B. T., 10C45
 Taylor, A., 2D33
 Taylor, B. J., 5E19
 Taylor, C. G., 12B50
 Taylor, C. R., 3D4
 Taylor, D. G., 1J7
 Taylor, D. W., 12C54
 Taylor, E., 6D223
 Taylor, E. H., 9D102
 Taylor, F., 2D125
 Taylor, G., 5D257
 Taylor, G. F., 3D106, 8D56
 Taylor, H. E., 9J96
 Taylor, L. C. E., 11D227
 Taylor, L. T., 3C51, 7J36, 11C50
 Taylor, M. C., 5J162
 Taylor, M. D., 6D308
 Taylor, P., 8E75, 12E44
 Taylor, R. B., 6D206
 Taylor, R. F., 11D221
 Taylor, S. L., 2F6
 Taylor, S. W., 9J142
 Taylor, W. D., 2D99
 Taylor, W. H., 12D22
 Tayurskii, V. A., 1B30
 Tealdo, G., 8H14
 Teale, P., 10D77
 Tebbett, I. R., 4D237, 9D191
 Tecce, M. F., 5D200
 Tecklenburg, R. E., jun., 6J54, 6J55, 10J61, 11J46
 Tegge, G., 8F19
 Teherani, D. K., 11E53
 Tehrani, A. Y., 9J16
 Teikhrb, T. K., 5H86
 Tekel, J., 7G26
 Telegin, G. F., 1B125, 3B23
 Telia, M., 9J39
 Telia, N. M., 3B41, 8B32
 Telin, B., 3D73
 Teller, D. C., 12D179
 Teller, G., 6J68
 Telsner, A., 4D247
 Tember, G. A., 7C78
 Temerk, Y. M., 5C51
 Temkin, N. R., 10D84
 Temmerman, E., 4B70
 Temmerman, I., 4J67
 Tempera, Y. M., 10D76
 Templeman, R. F., 10H40
 Tempst, P., 11D182
 Ten Brink, H. M., 10J152
 Tench, D., 11B28
 Teng, R., 5B103
 Tennigkeit, E., 5D38
 Tenore, A., 3D153
 Teodorescu, C., 4C34
 Teoule, R., 9D233
 Terabe, S., 8J44
 Teracostu, F. K., 1D71
 Terada, H., 7F20, 8F10, 10F19
 Terada, K., 5B40, 12B109
 Terada, M., 3D61
 Terada, S., 1B71
 Teradaira, R., 1D131
 Terai, T., 3F11
 Teramae, N., 4C94, 12J110
 Teramoto, T., 7D202
 Teran, E., 6B168
 Teranishi, M., 1D112
 Teran-Lengaran, E. F., 9B151
 Terao, S., 3D108
 Terao, T., 11D153
 Terashima, E., 11D151
 Terashima, S., 4B108, 8B85
 Terazawa, K., 7D121
 Terekhina, M. V., 8E22
 Terenetskaya, I. P., 9H20
 Terenius, L., 5D186
 Terent'eva, E. A., 7B49
 Terent'eva, L. A., 3B40
 Terletskaia, A. V., 3H35, 4B179, 6B94, 6H76, 10H72
 Ternrud, I. E., 11G4
 Terry, K. A., 5H3, 6H87
 Terry, K. W., 12B178
 Terry, M. K., 5D104
 Tervo, R. J., 8A25, 9A37
 Ter Welle, H. F., 1D205
 Tesarik, K., 5G25, 8J56
 Tescari, M., 3B97
 Tesch, P., 7D123
 Tesmer, M. G., 3H54
 Tessari, G., 9J87
 Tessier, L., 3F28, 4F70
 Tettmar, R. E., 5D55
 Teuber, M., 5F32
 Teubert, W. E., 12G12, 12G13
 Teunissen, G. J. A., 2D39
 Teunissen, M. W. E., 7D62
 Tevaarwerk, G. J. M., 10D183
 Tezima, S., 9F33
 Tezuka, T., 4D187
 Thach, B. T., 12D36
 Thain, M. E., 8J84, 12J95
 Thaker, N. D., 10B109
 Thakrar, H., 9D113
 Thakur, J. S., 5J43
 Thakur, R. S., 1B47
 Thakur, S., 3D116
 Thal, P. J. H. M., 8D208
 Thallemer, J., 10D261
 Thanassi, J. W., 11D188
 Thanei-Wyss, U., 4D206, 5J180
 Thanissorn, W., 4F22, 7F80
 Thannhauser, T. W., 11D196
 Thayer, A. E., 8H94
 The, H. L., 5J69
 Theile, J. D., 7D81
 Theis, D. L., 3E27
 Theis, W. B., 8J119
 Thelander, G., 4D65
 Thelen, M. P., 8D238
 Themelis, D. G., 4C16
 Thenot, J. P., 9D80
 Thente, K., 6J39
 Theodorakis, M. C., 1D71
 Theroux, P., 9D84
 Thewlis, P., 1C27
 Thibault, R., 3D35
 Thibeault, D., 10D109
 Thibert, R. J., 11D27
 Thieblemont, J. C., 7H62
 Thiel, D. P., 2H26
 Thielemann, H., 4J6, 11H61, 11H62, 11H63
 Thielen, H. J., 10J151
 Thiemann, E., 2A10
 Thiemann, K. G., 3G9
 Thieme, H., 5G18
 Thieme, R. E., 9D157
 Thiemens, M. H., 10H22
 Thier, H.-P., 8F11, 11G25
 Thierig, D., 1B105, 2A10, 4B161
 Thiers, J. C., 6D183
 Thies, W., 2J13, 7E17
 Thijssen, J. H. H., 4D235
 Thijssen, P. C., 8A14
 Thimmaiah, K. N., 1B135, 5B251, 7B132, 9B164
 Thind, P. S., 2F30, 9B139, 11E18
 Thiola, A., 6D101
 Thode, J., 2D21, 3D18, 6D31, 10D19
 Thode Jensen, P., 11D234
 Thoenes, N., 5J12
 Thoenes, J. G., 5D127
 Thoenes, H. W., 8H6
 Thoma, K., 8E63
 Thomae, M., 4B111
 Thomas, B. R., 7D141
 Thomas, C., 4C88
 Thomas, C. J., 9G8
 Thomas, D., 1J108, 11J134
 Thomas, D. W., 10D244
 Thomas, E. W., 8D90
 Thomas, G., 6D170
 Thomas, H., 5D166
 Thomas, H.-J., 12B30, 12B130
 Thomas, J., 4B154, 11C31
 Thomas, J. D. R., 2J111, 4J163, 4J166, 5J161, 5J172, 5J192, 6B122, 7B84
 Thomas, J. P., 12J133
 Thomas, L. C., 5D7
 Thomas, M., 1D94
 Thomas, M. H., 2D101, 2D102
 Thomas, P., 3D245
 Thomas, R. B., 5C88
 Thomas, S. H., 2D101
 Thomason, M. M., 6H79
 Thomassen, Y., 2D44, 7J82
 Thomasson, C. G., 1D96
 Thomford, P. J., 5D153
 Thomich, W., 8B20
 Thomke, K., 11J52
 Thompson, B. C., 4D78
 Thompson, D., 7F11
 Thompson, G. M., 1H36
 Thompson, H. C., jun., 4G26, 9G12, 10D105
 Thompson, J., 3D119
 Thompson, J. E., 3J82
 Thompson, K. C., 10H89
 Thompson, L. G., 2J128
 Thompson, L. R., 3D274
 Thompson, M., 5J13, 5J138B, 6J179, 7J87, 10B52
 Thompson, M. R., 12J14
 Thompson, R. E., 2E11
 Thompson, R. H., jun., 3F34
 Thompson, R. J., 10D188
 Thompson, S. G., 1D48, 10D71, 10D72
 Thompson, S. L., 12B140
 Thompson, T. A., 11D78
 Thomson, J., 5F24
 Thomson, S. B., 8D172
 Thomson, T., 6D116
 Thore, A., 1D121, 10D200
 Thoren-Tolling, K., 5D238
 Thoresen, S. S., 4D279
 Thorley, K. J., 4D116
 Thorne, L., 5B276

- Thornthwaite, J. T., 11D215
 Thornton, J. A., 10D212
 Thornton, J. I., 12C76
 Thornton, T., 4J30
 Thorpe, C. W., 10G4
 Thorpe, G. H. G., 3D6, 5A3, 9D12, 12J10
 Thorpe, M. J., 6H5
 Thorpe, S. A., 4F63
 Thorpe, S. R., 8B41
 Thouvenot, J. P., 8D248
 Threadgill, M. D., 3D71
 Thuemmel, H. W., 5B274
 Thuillier, A., 9D34
 Thunell, S., 10D262
 Thurm, V., 4F38
 Thurn, J. R., 4D158
 Thurn, R., 8J106
 Thurston, L. S., 12F9
 Thurston, W. M., 12B33
 Tian, L., 5B109, 5C42
 Tian, W., 8B129
 Tian, Y., 5E51, 9B30
 Tibbets, D. L., 1D215
 Ticha, M., 11D118
 Tidick, P., 3F43
 Tidwell, T. T., 4C78
 Tie, A., 10B122
 Tiedt, H. J., 5D126
 Tiernan, T. O., 8B138, 8J119
 Tietz, N. W., 12D238
 Tigelman, T. A., 8A21
 Tihanyi, E., 10C50
 Tihlarik, K., 4F20
 Tijssen, F., 9D250
 Tikanova, S., 12D171
 Tikekar, S. P., 11E20
 Tikhonov, A. A., 5B133
 Tikhonov, O. N., 8B126
 Tikhonov, V. N., 3B10, 9A16
 Tikhonova, L. I., 1B124, 5B152
 Tikhonova, L. P., 10B169
 Tikkanen, I., 12D237
 Tilch, J., 4H17
 Till, U., 7D179
 Tillekeratne, S. P., 5H10
 Tillement, J. P., 7D76
 Tiller, J. M., 1D140
 Tillman, J. E. W., 3A13
 Timar, I., 2J40
 Timmel, B. M., 4F74
 Timmers, J. P. J., 5F35
 Timms, W. E., 5J126
 Timofeev, G. A., 11B65, 11B66
 Timofeev, Yu. M., 4D164
 Timofeeva, S. K., 7J134, 7J135, 9J128
 Timonen, M., 7D173
 Timons, J. A., 5B272
 Timoshevskaya, V. V., 2J64
 Timotheou-Potamia, M. M., 1F18, 2B65, 4B51
 Timsit, R. S., 12B58
 Ting, S., 7E35
 Tingey, D. T., 3C60, 5J51
 Tinsley, D. A., 4H15
 Tiraspol'skaya, S. G., 8E48
 Tirpenou, A. E., 4D134
 Tisch, W. P., jun., 6H5
 Tishbee, A., 7C17
 Tishchenko, A. F., 5C94
 Tishchenko, M. A., 12B69
 Tishchenkova, I. F., 9D86
 Tisse, C., 10E17
 Titani, K., 5D185, 12D179
 Tikhova, N. F., 5D216
 Tittel, G., 8E26
 Tittelbach-Helmrich, W., 4D217
 Tiunov, L. A., 8D94
 Tiunova, L. V., 8D94
 Tixier, M., 4D165
 Tjaden, U. R., 5D163, 6D121, 7D89, 7D163, 8D42, 8D223, 12D222
 Tjan, K., 12B105
 Tkachuk, R., 1F1
 Tkachuk, T. M., 6H53
 Tkacz, R. J., 3C35
 Tkalcevic, B., 3D86
 Tmenov, D. N., 8C27
 Toal, B. F., 7D183
 Tobelko, K. I., 4B79
 Tobias, D. Y., 7E20
 Tobias Vilches, M., 5B155
 Tobler, L., 5B137
 Tocksteinova, D., 3C19
 Toda, T., 10J53
 Todd, J. F. J., 7J99
 Todd, P. J., 9J115
 Todd, T. A., 1D51
 Todoriki, H., 2D162, 11J25
 Todoroki, T., 4D169
 Todorov, N., 2J122
 Todorovic, D., 5J118
 Todorovic, P., 4D15
 Todradze, G. A., 4B169, 9E46, 11A9
 Toei, K., 4H61, 7B51, 7H41, 10B97, 10B154, 11H41, 11H47, 12H71
 Toei, T., 1B131
 Toelg, G., 2B93, 4H2, 7B1, 11B40, 11J84, 11J92, 12B61
 Toepfer, G., 5D201, 5D205
 Toepke, H., 10F6
 Toet, H., 6F29
 Toffaletti, J., 12D21
 Togami, D. W., 7J44
 Togawa, K., 8J124
 Tognoli, J. O., 10A6
 Toguchi, H., 8D184
 Tokhtuev, E. G., 7C12, 12J1
 Tokiura, Y., 4H21
 Tokiwa, H., 7H22
 Tokiwa, Y., 7H17, 9H19
 Tokola, R. A., 7D119
 Tokoro, T., 12D153
 Tokuda, K., 8J129
 Tokuda, M., 8D190
 Tokuhashi, K., 11C47
 Tokumura, A., 11D143
 Tokunaga, E., 3D175
 Tokunaga, H., 8D179, 9E7, 9E8
 Tokunaga, K., 10D100
 Tokuyama, T., 4D224
 Tolan, D., 7H18
 Tolkiehn, G., 1J79, 9J72
 Tom, H. K., 4D72
 Tomana, T., 6F58
 Tomas, M. A., 11C25
 Tomas, X. M., 4J28, 9A28
 Tomasi, J. P., 1D168
 Tomas Martinez, V., 3B21, 4B13
 Tomassetti, M., 1B100, 2D152, 3D22, 6E21
 Tomassini, F., 4H51
 Tomas Vert, F., 6E56
 Tomaszewska, B., 7G10
 Tomaszewski, J. E., 6C32
 Tomellini, S. A., 9A22
 Tomer, K. B., 2D146, 5D241, 9C69
 Tomer, R. K., 10C43
 Tomida, H., 9D47
 Tomingas, R., 2H10
 Tomita, S., 12E5
 Tomiyama, C., 4F54
 Tomiyasu, H., 12H68
 Tomiyasu, T., 8F51
 Tomkins, B. A., 12H39
 Tomlin, J. L., 5J126
 Tomlinson, E., 4J40
 Tommasi, A., 12D140
 Tommasini, A., 11E38, 12E19
 Tomoda, Y., 3D213
 Tomokuni, K., 5D246
 Tomono, T., 3D175
 Tomori, E., 10E42
 Tomov, E., 7D70
 Tompkins, D. J., 2J11
 Tompkins, M. A., 10J36
 Tompson, G. A., 10D50
 Tomtum, M., 5F13
 Tomza, U., 4D27
 Tonami, N., 10D45
 Tonani, R., 9J116
 Toncic, P. F., 1D215
 Tondeur, Y., 11C80, 12J122
 Tondre, C., 5C86
 Tonic, H., 8D43
 Tonelli, D., 2D106, 4E9, 5D258, 5E14, 10E35
 Tong, H. Y., 2H28, 7B146, 10B175
 Tong, S., 12B144
 Tono, T., 9F38
 Tonogai, Y., 4F22, 7F27, 7F80, 8F35, 10F35
 Tontarski, R. E., jun., 7J1
 Topalova, I., 10J73, 10J74
 Toporov, S. V., 6B100
 Toral, M. I., 12E3
 Torazzo, P., 4F56
 Toren, E. C., jun., 3D221, 3D247
 Toren, P. C., 8D111
 Torges, K.-F., 2C42, 2C43
 Torgov, V. G., 1B27, 3B40, 11B107
 Torgunova, N. I., 8H81
 Torija Isasa, M. E., 12F27, 12F28
 Toriyama, M., 2D194, 5D204, 6D249, 11D205, 12D190
 Torkos, K., 10C58
 Torok, S., 8D14
 Toropova, V. F., 4C9, 7B14, 10B104
 Torosyan, Zh. K., 11E41
 Torrance, P. M., 6D55
 Torres, A. R., 10D67
 Torres, L., 4C48, 4J2, 10D37
 Torres, V. R., 10A6
 Torresani, T., 3D198, 6D246
 Torrey, B. H., 12B28
 Torsi, G., 5H36
 Torti, L., 3D71
 Tosch, D., 12F25
 Toseland, P. A., 6D78
 Toshima, Y., 9E45
 Tosi, G., 7C35
 Tosoni, S., 7D42
 Totani, M., 5D171
 Toth, A., 8A15, 10D95
 Toth, E., 7B42
 Toth, G., 3D118, 11D177
 Toth, K., 3J105, 4J174, 5J184, 7J8, 12A18
 Toth, L., 6B16, 9D222
 Toth, T., 6C38
 Totir, N., 4B123
 Totty, R. N., 1C40
 Touchstone, J. C., 6D179
 Tougas, T. P., 12J40
 Tourtellotte, W. G., 4D255
 Tourtellotte, W. W., 4D255
 Tourville, J. F., 8D46
 Tovey, C., 5D87
 Towatari, T., 5D254
 Townsend, G. F., 5D30
 Townsend, J. C., 7D108
 Townshend, A., 5B134, 7B40
 Toyoda, M., 9F18
 Toyoda, S., 6D81
 Toyohara, H., 2D202
 Toyo'oka, T., 7D176
 Traag, W. A., 1D73, 6D125
 Traba, M. L., 4D291
 Traber, M. G., 3D238
 Tracey, K. J., 5D101
 Trachevskii, V. V., 8B27
 Tracy, D. H., 4J122
 Tracy, R. P., 1J40, 6D5, 10J51
 Trafford, D. J. H., 4D292
 Trafton, J. E., 4J8
 Traiger, W. F., 1D69
 Traini, A., 1B134, 12B138
 Trailter, H., 6J82
 Traldi, P., 9J116, 11J111, 11J112
 Tralongo, H., 3D126
 Tramposch, W. G., 4J24
 Tran, C. D., 12C60
 Tran, M.-A., 8D57
 Tran, N. D., 1J108
 Tran Duc Hau, 9E48
 Tran Minh Duc, 11J108
 Tran Minh Tam, 5B62
 Tranter, R. L., 1E4
 Trantham, A. L., 10F9
 Trapeznikov, V. A., 4J140
 Trautman, J. K., 2D12
 Trautmann, N., 9B87
 Trautwein, N. L., 5G32, 7G25
 Traveset, J., 1J44
 Travesi Jimenez, A., 4H16
 Travis, J. C., 4D23, 10J91, 10J115, 12B9
 Trazza, A., 2H34, 3F25
 Trebern, B., 5H69
 Tredoux, M., 12B157
 Trefry, J. H., 12H48
 Treit, J., 4B36
 Tremblay, R. D., 7D187
 Trenk, D., 11D63
 Trepanier, J., 4D88
 Trescher, D., 7D254
 Trestianu, S., 6J95, 6J103
 Treutler, H. C., 2B92, 12J139
 Trevisan, L. M. V., 4F39
 Treybig, D. S., 1C9
 Trezi, L., 2D132, 5C58
 Triantafillou, H. C., 7H13
 Trifone, A., 11F15
 Triggs, E. J., 4D103, 5D87
 Trjonis, J., 1H5
 Trilesnik, I. I., 11J68
 Trim, A. J., 6D144
 Trim, C. M., 2D166
 Trimbitas, E., 8C59
 Trimm, J. R., 2G8
 Trinder, P., 10D143
 Trinh, M., 10D229
 Trinkevich, N. I., 5E7
 Tripodo, M. M., 8F48
 Trischler, F., 12B48
 Trisciani, A., 10A23
 Tritschler, W., 1D172, 3D272
 Tritthart, W., 3D34
 Trius, N. V., 9D39
 Trkula, M., 12J104
 Trnka, T., 11D118
 Trnovec, T., 4D113, 11D85
 Troeltzsch, C., 4C45, 10C85
 Trofimov, A. R., 2E21
 Trogdon, J. W., 1J63
 Troitskaya, L. M., 2C24
 Trojanek, A., 4J37
 Trojanowicz, M., 2H48
 Trokhachenkova, O. P., 1B68
 Trokhimchuk, V. V., 8E89, 11E51
 Troll, G., 11B31
 Tromberg, B. J., 4D84, 8J96
 Tromp, R. L., 5B105
 Troncone, R., 11D206
 Tronov, G. I., 12B11
 Trospert, T. D., 10D166
 Trotman, C. N. A., 7D248
 Troutner, D. E., 12B136
 Trouvin, J. H., 1D53
 Trubachev, A. V., 11B142
 Trubey, R., 12H81
 Trubnikov, I. L., 1B37
 Truckess, M. W., 10G3, 10G4, 12F19
 Truett, W. L., 4J136
 Trugnan, G., 6D167
 Trugo, L. C., 10F55
 Trulson, M. O., 6J150
 Trumbore, C. N., 7D187
 Trummer, I., 11J52
 Truran, P. L., 8D136
 Trubula, Z., 2B28, 10B40
 Trzosinska, A., 5H40
 Tsagolov, K. S., 11D26
 Tsai, H. T., 5B77, 8B47, 8B65
 Tsai, J., 4C56
 Tsai, J.-S., 5H51
 Tsamis, M. T., 6D162
 Tsang, V. C. W., 3D180
 Tsang, W., 5D214, 12D229
 Tسانو, Ts., 9J73
 Tsapyuk, E. A., 11H74

- Tsareva, N. V., 4B49
 Tsarfin, Ya. A., 2C70
 Tsartsidze, M. A., 7D133
 Tsaturyan, M. G., 5J16
 Tsay, L.-M., 2B40, 11G23
 Tschager, E., 8F40
 Tschesche, H., 7D258B
 Tschoepl, P., 11J92
 Tschurlovits, M., 3J97
 Tse, R. S., 12E22
 Tseng, C. L., 11H51
 Tseng, S. Y., 10D61
 Tserkovnitskaya, I. A., 6B55, 6B168, 8B100, 9B2, 9B151, 9J81, 12B56
 Tserng, K.-Y., 12D123
 Tsubul'nikov, Yu. A., 12J82
 Tsimbalist, V. G., 4B54
 Tsimidou, M., 10F69
 Tsingarelli, R. D., 7B64
 Tsipenyuk, Yu. M., 3B108, 8B5
 Tszin, G. I., 4B79
 Tsubina, R. M., 6B125
 Tsuboi, S., 9D194, 12D174
 Tsubota, N., 4D199, 12D143
 Tsubouchi, H., 7F20
 Tsubouchi, M., 8C38
 Tsuchiya, A., 8J44
 Tsuchiya, H., 4D162, 7D167
 Tsuchiya, M., 7H61, 9J114
 Tsuda, T., 2F10, 4J21, 4J46, 7F29, 7J41, 11F7, 12J16
 Tsuge, S., 3J77
 Tsuji, A., 6D194, 11D1, 12D81
 Tsuji, H., 9H48
 Tsuji, K., 3C57, 3C58, 4C70, 5C82, 5C83, 9D121, 9E23, 12D147, 12H92
 Tsuji, M., 6J51
 Tsujii, K., 9B89
 Tsukada, S., 3F3
 Tsukagoshi, K., 2D194, 5D204, 6D249, 11D205, 12D190
 Tsukatani, H., 11D143
 Tsukiai, S., 11D57
 Tsukioka, K., 5D81
 Tsukioka, T., 8H87
 Tsuno, M., 1D159
 Tsunoda, N., 5D145, 7D101
 Tsurubou, S., 6E24, 12B161
 Tsuruta, Y., 7D238, 8D236
 Tshushida, T., 6F69
 Tsutsui, C., 10B23
 Tsutsui, T., 10H54
 Tsutsumi, A., 6D186
 Tsybina, O. V., 7A4
 Tsyganova, Z. F., 7B148, 7B153
 Tsyguleva, A. L., 8C50
 Tsyryapkin, V. A., 6D218
 Tu, C.-F., 1J26
 Tu, J. L., 4D259, 10D101
 Tu, S.-D., 10A8
 Tuason, D. A., 11D194
 Tuason, V. B., 11D194
 Tucheck, J. M., 11D132
 Tuckov, V. P., 5G27
 Tuchman, M., 11D129, 11D130, 12D131
 Tucker, D. J., 8D172
 Tucker, E. E., 1A8, 10A15
 Tucker, R. E., 9A5B
 Tucker, W. G., 5D233
 Tuckley, B., 8F38
 Tudos, F., 5E12, 6C54
 Tuemmers, M. H., 4J147
 Tuhtar, D., 6J177
 Tuinstra, L. G. M. T., 1D73, 6D125, 7G21
 Tukada, H., 7J91
 Tul'chinskaya, Z. G., 10B115
 Tulloch, A. P., 11D142
 Tulyupa, F. M., 8H38
 Tumanov, S. A., 8C15
 Tumanova, A. N., 1C13, 5B86, 8B3
 Tumas, J., 3D264
 Tumova, A., 12C71
 Tunis, F., 3H68
 Tunlid, A., 8D170
 Tupitsyna, E. V., 1J10
 Tuppen, C. G., 2B50
 Turanek, J., 3D227
 Turanov, A. N., 3B23
 Turcant, A., 4D111
 Turcic, M. N., 8B94
 Tureeva, H. M., 6E63
 Turel, Z. R., 11B146
 Tureli, F., 1E36
 Turino, G. M., 9D175
 Turk, G. C., 4D23, 10J91, 12B9
 Turkel'taub, G. N., 9A26
 Turkevich, N. M., 4C50, 9C44
 Turkin, Yu. I., 6B13, 7H34, 8B141, 8H54
 Turkova, L. D., 4C27
 Turmel, S., 11B130
 Turnbull, A. C., 8D124
 Turnell, D. C., 10D167, 10D168, 12D173
 Turner, A. P. F., 12J164
 Turner, G. V., 8F30
 Turner, I., 9H4
 Turner, J. C., 9D11
 Turner, R., 3D201, 4D239
 Turner, W., 6H5
 Tursunova, R. N., 6E34
 Turtoczek, I., 3D279
 Turton, M., 2D30
 Tur'yan, Ya. I., 11C9
 Tusek-Znidaric, M., 9F4
 Tusell, J. M., 1D132, 8D154, 11D156, 11D165
 Tuttlebee, J. W., 9D44
 Tu Van Nghia, 5B62
 Tway, P. C., 11D102
 Tweeten, T. N., 5G4
 Tweten, P. J., 4D244
 Twumasi, D. Y., 9D59
 Tychinskaya, I. I., 9C22
 Tyfczynska, J., 8D38
 Tyihak, E., 2D132
 Tykva, R., 5J157
 Tyler, A. N., 10E43, 10J116
 Tyler, J. M., 7J6
 Tymkevich, A. Z., 8H22
 Tyner, T., 1D39
 Tyrell, D., 4D240
 Tyson, H., 11D231
 Tyson, J. F., 2J6, 6B134, 7B126, 7J83, 10D70, 10J87, 10J88
 Tyukavkina, N. A., 5D121, 5D123, 6D154
 Tyurin, D. A., 8J112
 Tzavaras, J., 12H45
 Tzicas, E., 11C60, 12C80
 Tzouwarra-Karayanni, S. M., 1F4
 Ubbink, J. B., 1D178
 Uberti, E., 8E19
 Uchida, H., 8D55
 Uchida, S., 11D13
 Uchida, T., 1J64, 2B74, 10F51
 Uchikawa, H., 7B155
 Uchikawa, S., 3B69, 5B257, 7H37, 12B53
 Uchiumi, A., 3B29
 Uchiyama, H., 11D124
 Uchiyama, M., 7D204
 Uda, N., 12D174
 Udagawa, T., 11C10
 Udal'stova, N. I., 5H57
 Uden, P. C., 5C52, 5C62
 Udenfriend, S., 9D192
 Udseth, H. R., 6D140
 Ueba, H., 12B7
 Ueberschaer, K., 12C65
 Uebori, M., 5H31
 Ueda, A., 9B119
 Ueda, I., 8E66
 Ueda, J., 3B106
 Ueda, K., 4H69
 Ueda, N., 3D108
 Uehara, S., 11E11
 Ueland, P. M., 2J19, 5D224
 Uematsu, G., 10J38
 Uematsu, R., 9H61
 Uemura, S., 7H42
 Ueno, H., 12E24
 Ueno, K., 5B59, 6B28, 11B92
 Ueno, M., 7E43
 Ueno, T., 3D239, 7D4
 Ueno, Y., 6H17
 Uenoyama, R., 5D161
 Uesugi, K., 8H72, 10B153
 Uesugi, M., 12H56
 Uesugi, T., 6D269
 Ueta, H., 6D237
 Ueyama, M., 1D159
 Uflyand, T. F., 9B168
 Uges, D. R. A., 12D99
 Ughetto, L., 6H63
 Uglova, T. G., 8E21
 Ugrinovich, M., 6F21
 Uhlemann, E., 2B82, 8B8
 Uhnak, J., 6F2
 Ujihira, Y., 2C6
 Ukari, H., 1D112
 Ulakhovich, N. A., 4B22, 4B114, 9B141, 10B90
 Ulakhovich, V. A., 5B24, 11B163
 Ulas, K., 10D92
 Ulbrich, I., 5F18
 Ullall, A., 12D188
 Ullian, F., 6F66
 Ullman, A., 5E31
 Ullman, E. F., 4D72
 Ullrich, J., 7D254
 Ulmen, J., 4E12
 Ulrich, J. M., 11J1
 Ul'yanova, T. M., 12B69
 Umezaki, Y., 7H31, 8B12, 8H47, 10B102
 Umezawa, H., 8D43
 Umezawa, Y., 1J99, 12A18
 Umhauer, H., 9J147
 Umino, M., 5D169
 Umland, F., 5B193, 6J186, 7B133
 Underwood, F. A., 8E84
 Unc, I., 5D70
 Ungaro, R., 5J58
 Unger, K. K., 6D240, 7J21, 8J21
 Unger, M., 1H33, 12H63
 Ungerer, C. A., 6H60
 Unjiyo, N., 4J168
 Unnithan, S., 9D274
 Unno, Y., 2H55, 3H56
 Uno, K., 1F11, 5F27, 7F5, 7G35, 8E32, 12E11, 12E18, 12E49
 Uno, M., 3G18, 7G37, 8G14
 Uno, S., 6D165
 Uno, T., 10D68
 Upcavage, R. J., 12D144
 Upchurch, B. T., 6J158
 Upreti, G. C., 10D42
 Urabe, N., 11B19
 Uralets, V. P., 6D70
 Urano de Carvalho, E., 12H51
 Urban, M., 11H11
 Urbano, E., 5J110, 12B129
 Urbanska, H., 10C31
 Urbanski, J., 5C10, 5C11
 Urbanski, P., 11B161
 Urch, D. S., 6B104
 Ure, A. M., 3B12
 Uritskaya, A. A., 9B25
 Urovskii, L. F., 3C20
 Urusov, Yu. I., 11J130
 Urx, B., 10J59
 Usacheva, L. V., 1B5
 Usami, K., 10H63
 Usami, T., 8C81
 Usanova, N. V., 10B99
 Usborne, W. R., 2F16
 Use, L., 12J18
 Usenko, Yu. N., 10C13
 Usha, B. N., 7D174
 Ushakova, N. M., 6B1
 Ushio, K., 2D176
 Ushiroguchi, T., 12D118
 Usiekiewicz, K., 8D38
 Usmentseva, A. Z., 4F15
 Usoskin, A. I., 4J100
 Usov, A. B., 8C15
 Usov, V. N., 1B126
 Usova, E. P., 3C28
 Usova, S. V., 7B103
 Usseglio-Tomasset, L., 6F77
 Ustimenko, V. N., 3B76
 Ustinova, V. I., 10B148
 Ustyynyuk, T. K., 4D164
 Usuda, S., 2D207
 Usui, T., 11D210
 Utamura, T., 3D127
 Uthe, J. F., 8F32
 Utley, D., 2E50
 Utvik, A., 5C22, 5F59
 Uto, M., 6B129
 Utoh, M., 12D157
 Utsumi, K., 6D237
 Utsumi, S., 5B196
 Utterback, D. F., 12C16
 Uvarov, P. Ya., 8C27
 Uvarova, K. A., 11B27
 Uvarova, N. I., 9D110
 Vaarmann, A., 9B117
 Vaca, G., 6D292
 Vacchi, P., 7E32
 Vachek, J., 10E11
 Vachtova, I., 4H64
 Vacik, D. N., 3D221, 3D247
 Vackova, M., 4B15
 Vadgama, P., 7D2
 Vadiwala, R., 5A18
 Vadukul, N. K., 4J23
 Vaidya, S. K., 5C48
 Vaidya, V. G., 5B44
 Vaidyanathan, C. S., 4D160
 Vail, A. M. A., 8F31
 Vail, E. I., 7B95
 Vainiotalo, S., 3H19
 Vajda, J., 7D130
 Vajda, M., 10D95, 10D235
 Vaigand, V. J., 3A9, 4C25, 5C35
 Vajro, P., 4D28
 Vakar, O. M., 6J157
 Vakil, B. B., 4B43
 Vakilova, G., 4B11
 Vakulenko, V. A., 4C96
 Vakurov, G. F., 4J101
 Valaitis, A. K., 5D30
 Valasek, J., 6A3
 Valcarcel Cases, M., 3B31, 3J8, 5A8, 5B74, 6B66, 6F47, 8B71, 10B30, 10B137, 10C27, 10J12, 12B92, 12B141, 12F11
 Valcavi, P., 8D195
 Valcher, S., 8B9, 8J130, 11J145
 Valdes, R., jun., 1D174, 8D35
 Valdes Martinez, S. E., 2G16
 Valdez, J. G., 3D190
 Valdigue, P., 6D183
 Valdniece, A., 4C11, 10C19
 Valdre, U., 5J68
 Vale, J. A., 4D116
 Valenta, P., 12D37, 12H50, 12H51, 12H88
 Valente, D., 1D41
 Valentin, J. R., 6J75
 Valentine, G., 4B107
 Valentine, J. L., 7D40
 Valentini, O., 6D232
 Valentour, J. C., 2D85, 3D55, 3D64
 Valentova, M., 4H26
 Valentova, O., 4F24
 Valero, J., 3B70
 Vale Serrano, J. F., 10F33
 Valette, J. P., 6D57, 11D79
 Valeur, B., 6D174
 Valimaki, M., 12D171
 Valkovic, V., 4D55, 7B144, 10H45, 11B44, 11D16
 Valla, C., 6D270
 Valladon, M., 12B186
 Vallanen, T., 7E6
 Valle, F. J., 5B283
 Vallee, M., 2B48
 Vallis, L., 9A36
 Vallis Palles, C., 7F13
 Valovoi, V. A., 4C93
 Vamos, J., 2E26, 4E2
 Vamos-Szilvassy, Z., 5B235, 5B236

- Van Aller, R. T., 12D121
 Van Amsterdam, J. G. C., 3D155
 Van Assendelft, O. W., 8D206
 Van Balen, H. C. J. G., 9D75
 Van Beek, L., 9B56
 Van Beek, T. A., 10E6
 Van Beelen, P., 1D150, 7H75
 Van Bekkum, H., 5A13
 Van Bennekom, W. P., 4J38, 5J34, 8D42, 8E69
 Van Berge Henegouwen, G. P., 9D150
 Van Bergen Henegouw, J., 4D261
 Van Beveren, J., 11H55
 Van Bezoooyen, J. A. G., 4J38
 Van Biervliet, J. P., 2D208
 Van Bockstaele, M., 2D135
 Van Buuren, K. J. H., 3D155
 Van Cauwenberghe, K., 11H20
 Van Craen, M., 9B56, 12J121
 Vancraenenbroeck, R., 9F48
 Vandaele, J., 3D27
 Van Damme, A., 12C29
 Vandecasteele, C., 11B43, 12B97
 Vande Castele, K., 1D5, 3D90
 Vandeginste, B. G. M., 7A12
 Van de Grampel, J. C., 12D99
 Van Deijck, W., 9J95, 11D15, 12D30
 Vandekerckhove, D., 6D184, 7D137, 7D142
 Vandemark, F. L., 6D244
 Vandenberg, J. L., 9D28
 Vandenberghe, H., 1D194
 Van den Bedem, J. W., 9F35
 Van den Berg, C. M. G., 2H33
 Van den Berg, G. A., 12D160
 Van den Bosch, N., 7D89
 Van den Bosch, P. A., 6B41
 Van den Bossche, W., 11E56
 Van den Ende, A., 5D158, 9D161
 Van der Boon, W. J. V., 6D83
 Van der Gaast, N., 7G15
 Vander Heiden, G. L., 7D201
 Van der Helm, H. J., 9D253
 Van der Hoeven, T., 11D235
 Van der Kleijn, E., 2D58, 11D58
 Van der Kraan, A. M., 6B176
 Van der Laarse, J. D., 7B142
 Van der Lee, H. B. J., 2E46
 Van der Linden, R., 7C94
 Van der Linden, W. E., 7J10, 8C66, 11A29, 11A30
 Van der Maeden, F. P. B., 11D198
 Van der Mijks, E. J., 8E69
 Van der Mijksbrugge, F. M. C., 7F74
 Van der Poel, C. J., 4J38, 5J34
 Van der Schoot, B. H., 2J108
 Van der Slik, W., 2D171, 4D35, 7D118
 Van der Sloot, H. A., 2D39
 Van der Sluis, P. J., 3D164
 Van der Stap, C. C. A. H., 4D55, 11D16
 Van der Ven-Jongekrijg, J., 5D237
 Van der Verren, J., 7J58
 Van der Vijgh, W. J. F., 2E46, 10D243
 Van der Voet, H., 3D75
 Van der Voort, H. A., 10D141
 Van der Wal, J. F., 6H11, 11H30
 Van der Westhuizen, W. A., 10B173
 Van der Wiel, P. F. A., 5A23, 7J9
 Van der Woerd-de Lange, J. A., 1D182
 Van der Zee, H. J., 10E20
 Van der Zee, R., 9D201
 Vandevale, I., 3D205
 Van de Vate, J. F., 10J152
 Van de Velde, N., 8F56
 Van de Ven, L. J. M., 2J21
 Van de Voort, F. R., 2F16, 3F18
 Vandewalle, A., 9D251
 Vandewalle, M., 7F40
 Van Dijk, A., 11D31
 Van Dijk, C. A., 1J68
 Van Dijk, C. M. C. E., 8D227
 Van Dijk, G. A. R., 9B59
 Van Dijken, J. P., 5J178
 Vandongen, R., 2D141
 Van Dooren, A. A., 4J177
 Van Doormaal, J. J., 7D118
 Van Dyck, P., 2J66, 8D14
 Van Eck, R., 11D21
 Van Eenbergen, J., 3D206
 Van Eerd, E. J. J. M., 7B106
 Van Eyk, J., 3D162
 Van Garderen, C., 12G9
 Van Gennip, A. H., 10D156
 Van Gent, C. M., 10D141
 Van Ginkel, F. C., 10D243
 Van Ginneken, C. A. M., 12D93
 Van Grieken, R., 2J66, 2J93, 7J100, 8D14, 11H34
 Van Grondelle, M. C., 7B142
 Van Haastert, P. J. M., 7D249
 Vanhaelen, M., 8E6
 Vanhaelen-Fastre, R., 8E6
 Van Haverbeke, L., 1F3
 Vanhee, P., 2F17
 Van Heerden, A. M., 9H39
 Van Hees, P. A. M., 9D75
 Van Henegouwen, G. M. J. B., 8E44
 Van Hoeyweghen, P., 3D21
 Van Hogezaand, R. A., 9D75
 Van Horne, K. C., 4J19
 Vanifatova, N. G., 3B40
 Van Kampen, E. J., 10D225
 Van Kempen, G. M. J., 6D298
 Van Kerrebroeck, M., 12J18
 Van Krimpen, D., 10J111
 Van Leersum, L., 9D125
 Van Leeuwen-Herberts, T., 3D204
 Van Lenten, F. J., 3J15, 9H76
 Van Lierop, J. B. H., 3F4
 Van Loef, J. J., 6B176
 Vanloo, B., 1B130, 8B121
 Van Loo, F. J. J., 11J83
 Van Lookeren Campagne, M. M., 7D249
 VanLoon, G. W., 2H49, 12J171
 Van Loon, J. C., 4B69, 4H18, 6H43, 6J129
 Vanluchene, E., 4J74, 6D184, 7D137
 Van Mazijk, R. J., 6D125
 Van Mol, W. E., 2H65
 Van Munsteren, T. J., 1D73
 Vann, W. F., 7D256
 Van Niekerk, P. J., 11F3
 Van Nispen, J. W., 11D180
 Vannucchi, H., 11D226
 Vannucchi, P. L., 4D189, 12D140
 Vannucci, R., 9B80, 11B76
 Vannucci, S., 9B80
 Van Oel, W. C., 2D213
 Van Oort, W. J., 7B106, 11D59
 Van Oosterom, A. T., 6D121, 7D89, 8D42
 Van Oostrom, A., 4B203
 Van Opstal, M., 12G9
 Van Os, M. J., 8J39
 Van Oye, R., 10D189
 Van Oystaeyen, B., 9J77, 12B23
 Van Pee, W., 2F42
 Van Puymbroeck, J., 9J112
 Van Remmerden, C., 11D55
 Van Riessen, A., 12B178
 Van Rijn, P. A., 6D103
 Van Rillaer, W. G., 4F69
 Van Roelenbosch, M., 6J70, 6J94
 Van Rooijen, H. W., 5J39
 Van Sande, M. E., 1D226, 8D247
 Vansant, E. F., 7B141, 7C94
 Van Schaik, A., 5D125, 9D75
 Van Schalm, K. J., 9F34
 Van Silfhout, R., 12J130
 Vanska, L., 8J116
 Van Soestbergen, A. W., 7F70
 Van Son, M., 5H59
 Van Stekelenburg, G. J., 12D42
 Van Strien, W., 10H93
 Van Strijen, E., 7D89
 Van Strik, R., 6D182
 Van Sumere, C. F., 1D5, 3D90
 Van Thiel, M., 2D89
 Van't Hof, W., 7D163
 Van't Klooster, H. A., 7G15, 10J111
 Van Tongeren, J. H. M., 1D81, 5D125, 9D75
 Vantrappen, G., 6D199
 Van Vaec, L., 11H20
 Van Valkenburg, C. F. M., 5D163, 7D163
 Van Voorst Vader, P. C., 1D110
 Van Willigen, J. H. H. G., 8C66
 Van Woensel, C. L. M., 2D213
 Van Wyk, D. B., 8H41
 Vanyi, A., 10F13
 Vanysek, P., 6E29, 11C24
 Vanzetti, G., 1D41
 Vapaatalo, H., 12D127
 Varadan, R., 11C12
 Varadharaj, A., 5J188
 Varavko, T. N., 5B213
 Varentsov, K. V., 9B28
 Varga, S., 9B120
 Vargas, V. I., 12B17
 Varghese, G., 4D249
 Varghese, S. L., 6J27
 Varhelyi, C., 1B136, 3E44
 Varik, V. I., 3B16
 Varlachev, V. A., 5C65, 12J82
 Varlashkin, P. G., 7J122
 Varma, A., 5H23
 Varma, R. K., 11J77
 Varma, S. P., 2J88
 Varmuza, K., 11A4B, 11A5B
 Varner, S. L., 4F46
 Varo, P., 2F1
 Varshal, E. B., 6B68
 Varshal, G. M., 7H27, 11B150, 11H37
 Varshney, K., 1E37, 6J50, 8B110, 8B114, 10J49
 Varshney, K. G., 1E37, 5D182, 6J50, 8B110, 8B114, 10J49
 Vartak, H. G., 3D8
 Vartiainen, T., 9D123
 Vartires, I., 4B123
 Vartsky, D., 6D41, 10D41
 Varvaritsa, V. P., 9J74, 12H4
 Varvoglis, A., 11A17
 Vasanitis, D., 11C35
 Vashi, D. M., 4C86
 Vasidov, A., 4B11
 Vasil'chuk, T. A., 3B71, 10B92, 10B111
 Vasil'ev, I. Ya., 10B177
 Vasil'ev, N. V., 12H3
 Vasil'eva, A. A., 3B107
 Vasil'eva, M. G., 9B123
 Vasileva-Aleksandrova, P., 12G10
 Vasiliades, J., 4D266, 5D48
 Vasilic, Z., 3D86
 Vasilikiotis, G. S., 4C14, 4C16, 4C42, 10B165, 11B68
 Vasiyarov, G. G., 2J17
 Vass, S. W., 1D89, 4C13
 Vassallo, A. M., 12C49
 Vassilakis, J. P., 5J131
 Vassilaros, D. L., 6J79
 Vassos, B. H., 7J141B
 Vasu, K. I., 4B9
 Vaswani, A. N., 10D41
 Vaswani, M., 10F70
 Vataman, I. I., 7B86
 Vater, P., 5J144
 Vaughan, G. N., 2D169
 Vaughan, M., 9J82
 Vavra, L., 1G7
 Vavra, M., 3G10
 Vavrouch, Z., 8H86
 Vazquez Roncero, A., 5F58
 Vazquez Ruiz, J., 7B114
 Vebrel, J., 4G27
 Vecchi, M., 6D267
 Vecchio, A., 6F74
 Vecchio, G., 10D192
 Vecernik, J., 4C67, 8B61
 Veech, R. L., 4D137
 Veening, H., 1D122
 Veilahi, J. V., 12J147
 Veillon, C., 1D31, 5D34, 7D33
 Veith, J., 11D227
 Veits, N. A., 10B145
 Vejrosta, J., 2C25
 Vejrosta, M., 5H34
 Vekshin, G. A., 9E24
 Veksler, M. A., 1J41
 Velapoldi, R. A., 5H96
 Velasco, P. T., 1D164
 Velasco Velez, J., 9B97
 Velasevic, K. R., 6E15
 Velghe, N., 1B84
 Velinov, G., 2J122
 Velisek, J., 4F57
 Velotti, M., 11D119
 Velthorst, N. H., 5J11, 7H68, 12B103
 Veltkamp, A. C., 5J11
 Velyukhanova, T. K., 7H27
 Vemulapalli, G. K., 4A23
 Vendelbo, K., 10B174
 Venema, A., 6H29, 6J58
 Venzky, D. L., 10H78
 Venkataramaiah, M., 2J124
 Venkataramana, P., 2B47, 4B95
 Venkateswarlu, T., 7B48
 Verba, A. V., 11E52
 Verbeek, A. A., 12D14
 Verbeke, R., 2F17
 Verbic, I., 12E51
 Verbiess-Genard, N., 5D164
 Verburg, K. M., 9D164
 Vercaemst, R., 2D208
 Vercaigne, D., 4D318
 Verdier, Y., 5C111
 Verdingh, V., 11A11
 Verdon, B., 6D301
 Verduyn, C., 5J178
 Verdy, M., 3D232
 Verebey, K., 6D92
 Veretina, G. N., 12H16
 Verga, G. R., 6J61, 6J105
 Vergechik, E. N., 6E57
 Verghese, C., 2D91
 Verghese, J., 5F42, 11C59
 Vergun, I. I., 3B16
 Verhaar, L. A. T., 8C77
 Verheggen, T. P. E. M., 2J35, 3J43, 9J48
 Verheyen, F., 11A11
 Verheyen, T. V., 7C63
 Verkhuturov, V. N., 2J86
 Verlinden, J., 9J112
 Verloof, M., 12G2
 Verma, B. C., 4G37, 7C30, 12G11
 Verma, C. K., 10B108
 Verma, K. K., 1F16, 12E34
 Verma, L. R., 6G1
 Verma, P., 2C61, 11H24
 Verma, R., 5A37
 Verma, R. M., 3C15, 12C2
 Vermeer, C., 11D204
 Vermeer, E. A., 6J91, 12J65
 Vermeulen, A., 5D152
 Vermeulen, N. P. E., 7D62
 Vernet, J. L., 3H44
 Vernet-Nyssen, M., 3D269
 Vernillo, I., 2D15
 Vernin, G., 8F8
 Vernon, F., 3J51, 6C6
 Vernon, M. W., 8D129
 Vernoy, C. A., 7G13
 Verpoorte, R., 9E2, 10E6
 Vershinin, A. S., 7B9
 Vershinina, N. V., 7B9
 Verstappe, M., 4J67
 Verweij, A., 7E44

- Verweij, A. M. A., 5D43, 9E32
 Verzele, M., 2C77, 4F71, 4J74, 6J70, 6J94, 7J27, 8F56, 9J25, 12J18
 Verzijl, J. M., 9E2
 Vesela, D., 9E54
 Veselinovic, D. S., 12E26
 Veselov, V. Ya., 3C20, 9C34
 Veselova, L. I., 1B72
 Veselova, L. N., 2C30, 6C23
 Veshchikova, N. A., 10B127
 Vespalec, R., 3E1, 5E2, 8C41, 10B4
 Vestal, M. L., 4D70, 8J109, 9D9
 Vesterberg, O., 3D196, 6D255, 10D205
 Vetokhin, V. N., 7A4
 Vetrov, V. A., 12H46
 Vetrova, Z. P., 10C3
 Veveris, A., 5D217, 5D218, 6D50, 7D225, 8D161
 Veveris, A. Ya., 8D161
 Viala, A., 12D96
 Vialatte, B., 6B161
 Vialle, J., 3D126, 8J38
 Viau, A. C., 3H81, 5C57
 Vibhute, C. P., 5B159
 Vicente, T. S., 6G17
 Vicente Pedros, F., 6E56
 Vicente-Perez, S., 3B77, 3B81, 5B182, 10B106
 Viceps-Madore, D., 11D188
 Vickers, M. F., 2D192
 Vickers, T. J., 2J78, 6J136
 Vickerstaff, N., 6C55
 Victor, D. M., 9H88
 Vidal, C. J., 4D317
 Vidal, J. C., 5B112, 8B84
 Vidal-Madjar, C., 6J69
 Vidal-Quadras, A., 9H41
 Vidari, G., 8E19
 Viden, I., 3D113, 4F57, 9D132, 11D137
 Vidrevich, M. B., 9B25
 Vidziunaitis, R., 2C31
 Vierhapper, H., 10D174
 Vierkorn-Rudolph, B., 12H28
 Vietti, L., 4F56
 Viezzoli, G., 5D15
 Vigdergauz, M. S., 7C56
 Vigh, G., 2C1, 7C39
 Vignati, K., 5J4
 Vignier, V., 7C51
 Vignola, R., 2E15
 Vijan, P. N., 12D49
 Vijayan, E., 2D227
 Vijverberg, C. A. M., 5A13
 Vikina, N. M., 2C3
 Viktorova, M. E., 3B63
 Viktorova, T. D., 9B130
 Viktorova, T. S., 7C4
 Vila, C. L., 2E20
 Vila, E., 5J71, 8B13, 8B115, 8J79
 Vilbok, H., 9B118
 Vilenchik, L. Z., 7J73B
 Vilim, A. B., 2F14, 8F26
 Vilker, V. L., 11D9
 Villacorte, D. G., 5D234
 Villalobos, M. C., 4F42
 Villamagna, F., 9B116
 Villanueva, E., 1D203
 Villaume, C., 6D231
 Villegas-Navarro, A., 5D108
 Villen, T., 3D44
 Vinaimont, N., 9D216
 Vinarova, L. I., 9B129, 11B34
 Vincent, D. H., 12J137
 Vincent, D. L., 5D153
 Vincent, R., 8D187
 Vincent, R. J., 12H77
 Vincke, B. J., 1J107, 8E50, 10J145, 11J135
 Vines, S. M., 9C86
 Vinet, B., 5D40
 Vinge, E., 12D65
 Vink, K. L. J., 8D17
 Vinnikov, Yu. Ya., 4B122
 Vinogradova, N. I., 1B163
 Visokouski, A. I., 1C15
 Vira, L., 3D105
 Viras, L., 7C3
 Virasova, N. P., 11C9
 Viras, G., 7C52
 Vioque, A., 6F78
 Vire, J.-C., 4E42, 7E13
 Virk, H. S., 1B87, 12C58
 Virkki, L., 11C17
 Vis, R. D., 4D55, 11D16
 Visalli, A. J., 9E34
 Visconti, M., 2E37
 Visser, F. R., 7F68
 Visser, J., 7H74
 Visser, S., 7F55
 Visser, H., 6J83
 Viswanadham, K., 4J151
 Viswanath, S. G., 5B174
 Vit, I., 8J19
 Vitali, P., 3C29, 11H60
 Vitenberg, A. G., 9A27, 11J50
 Vitt, S. V., 6D217
 Vitte, V., 8F19
 Vitto, M., 7D162
 Vittori, O., 1B38
 Vityuk, N. V., 4J120
 Vivchar, O. I., 8C62
 Vivian, R., 1B60
 Vlachakis, N. D., 10D155
 Vlacil, F., 3B105, 5B49
 Vladescu, L., 1B31
 Vlasenko, A. Yu., 9E24
 Vlasenko, E. V., 10J74
 Vlasov, Yu. G., 9J133, 11J126, 11J131
 Vlasova, G. E., 4J164
 Vlasova, N. N., 12B43
 Vnukov, S. A., 4J150
 Vobecky, M., 6A3, 12B156
 Vo Dac Bang, 11J119
 Vodicka, L., 3C38, 5C61
 Vo-Dinh, T., 11H28
 Vodny, S., 10C73
 Vodrazka, Z., 4F24
 Voeltge, F., 5J169
 Voeller, K., 4D91
 Voelkopf, U., 5J91, 7J85, 9D33
 Vogel, W., 9B178
 Vogels, G. D., 1D150, 7H75
 Vogg, H., 4A4, 12H17
 Vogt, W., 10D154
 Voigt, U., 6D246
 Voigtman, E. G., 1J70, 10J101, 12D216
 Voilley, A., 11F27
 Voinovitch, I. A., 1J65, 11B73
 Voisin, E., 8D230
 Voitovich, V. B., 6B141
 Vokhrysheva, L. E., 3B64, 7B80
 Vokoun, J., 3D107, 8E14, 10D57, 10G16
 Vol'berg, N. Sh., 3H7, 10B115
 Volfinger, M., 9B175
 Volford, J., 2D132
 Volfstein, P. M., 1B6
 Volke, J., 5G33, 5G34, 11G31
 Volkert, W. A., 12B136
 Volkmann, D., 1E6, 11C54
 Volkov, A. N., 3B73, 4J101
 Volkov, A. V., 5J179
 Volkov, S. A., 8J64
 Volkov, V. L., 3J103
 Volkov, V. V., 6J151
 Volkova, A. I., 3B71, 10B92, 10B111
 Volkova, V. N., 7J136
 Voller, A., 1D228
 Vollhardt, D., 5C85, 7C72
 Volobuev, N. K., 11C40
 Volobueva, I. V., 4J164
 Volodina, L. D., 8E55
 Volodina, N. N., 7A18
 Volpe, F., 8E80
 Volskii, E. M., 11D26
 Volynskii, A. B., 1B73
 Volz, A., 12H20
 Von Arx, E., 9D275
 Von Bernuth, G., 6J190
 Von Boehmer, H., 5D58
 Von Bredow, J., 6D120
 Von Buenau, G., 2J94, 11J115
 Vonk, N., 2J21
 Von Khreninger, G., 4C57
 Von Lampe, A., 10C77
 Von Lengerken, J., 11G19
 Von Meyer, L., 12D29
 Von Postel, G., 4D18, 9D137
 Von Rechenberg, H., 10D257
 Von Rosenstiel, A. P., 7B73, 7B125
 Von Schantz, M., 4J57
 Von Zglinicki, T., 7D16
 Voogt, P. A., 3D114
 Voogt, W. H., 4J36
 Vora, K. N., 5J136
 Voragen, F. G. J., 5F35
 Vorberg, B., 3B72, 9B136, 10D245, 10J92
 Vorberg, S., 5C14
 Voris, J. C., 7D69
 Vorlicek, V., 7B159
 Vorob'ev, G. V., 7D28
 Vorob'ev, M. M., 6D217
 Vorob'eva, G. A., 7B110, 11B118
 Vorob'eva, O. V., 6F24
 Vorobyov, M. E., 6E16
 Voronin, B. M., 9C1
 Voronina, L. G., 10C71
 Voronina, T. N., 4J105
 Voronkov, M. G., 12B43
 Voronkova, M. A., 3B78
 Voronov, I. E., 5H8
 Voropaev, E. I., 9B8
 Vorsatz, B., 5B7
 Vos, L., 2J93, 7J100
 Vos, Y. J., 12G9
 Voslar, J., 10J21
 Vosolsobe, J., 7J4
 Voss, Dr., 3D152
 Votteler, C., 9C79
 Voulgaropoulos, A., 12H88
 Vouras, P., 4J31, 8D175
 Voute, P. A., 10D156
 Vowinkel, E., 3D219
 Vowles, D. J., 12B178
 Voyksner, R. D., 6J161
 Vozka, S., 10J21
 Voznakova, Z., 5H83
 Vrabel, M., 10E36
 Vrana, O., 5D39
 Vratny, P., 4F14
 Vrchlasky, M., 10B4
 Vrebos, B. A. R., 10A19
 Vree, T. B., 11D58
 Vreven, F., 4E5
 Vrindt-Gevaert, Y., 4D322
 Vrins, E., 10H6
 Vromen, S., 2J2, 4J5
 Vrublevskaya, T. Ya., 1B21, 1B44
 Vu, B. D., 4D47
 Vucurovic, B., 11J146
 Vu Duc, T., 11H27
 Vuilleumier, J. P., 3D242
 Vujtovic-Ockenga, N., 6D211
 Vukecic, L., 11B36
 Vukelic, S. B., 4B157
 Vukovic, J., 9D246
 Vul'fson, E. K., 2J85
 Vulpilat, M., 10D107
 Vulto, A. G., 11D161
 Vurek, G. G., 12D3
 Vyaselev, M. R., 2J117, 2J118
 Vycudilik, W., 3J57
 Vymetal, J., 5C80
 Vyshinskii, N. N., 10B112
 Vysotskaya, T. I., 12B51
 Waber, J., 3H65
 Wachob, G. D., 9E31
 Wackerbauer, K., 5F49
 Wad, N., 8D45
 Wada, A., 8J18
 Wada, H., 1B129, 2B79, 5B35, 5B217, 6B47, 8C26, 8J23, 8J35, 12J60
 Wada, K., 3D185, 5B78
 Wada, O., 5C39
 Waddell, K. A., 10D132, 12D125
 Wade, A. P., 3A13, 4A15, 5A42, 5B164
 Wade, C. P., 4J41
 Wade, K. E., 2D96
 Wade, S., 9D143
 Wadhwa, A., 3C15
 Waechter, H., 4J119
 Waechter, W., 12E36
 Waetjen, U., 10H3
 Wagatsuma, K., 12B44
 Wagener, D. J. T., 2D58
 Wagener, J. B., 11J66
 Wagenfeld, H. K., 9B150
 Wages, S. A., 4D21
 Wagman, G. H., 7E46B
 Wagmann, M., 7F23
 Wagner, A. P., 11D189, 12D244
 Wagner, D., 5B274, 11B161
 Wagner, G. H., 1G5
 Wagner, H., 1E13, 1E45B, 8E26
 Wagner, H. G., 4B4, 9H1
 Wagner, H. N., jun., 6D223
 Wagner, J., 11D158
 Wagner, J. L., 9D208
 Wagner, K., 5F48, 10C77
 Wagner, L. P., 11D189, 12D244
 Wagner, T. J., 11H28
 Wagstaffe, P. J., 9A15, 11A12, 11C42
 Wahbi, A.-A. M., 2E34, 7E45, 8E68, 9A34
 Wahdat, F., 7B13
 Wahl, A. C., 6B19
 Wahlefeld, A. W., 1D108, 9D133
 Wahlm, L., 4J148
 Wahlstrom, L., 3D202
 Wahlund, K.-G., 7D65
 Wai, C. M., 5H45, 8H56, 9H55
 Waidmann, E., 12D27, 12D38
 Wainai, T., 8C69
 Wainer, I. W., 1C2, 3E37, 8C36, 8E67, 10E5, 11D88
 Wainwright, M. S., 3B22, 3H14, 10C5, 11G34
 Wainwright, P., 12C9
 Waite, T. D., 3H53, 12H73
 Waites, M. J., 7F86
 Wakabayashi, K., 6D315
 Wakabayashi, M., 11C70
 Wakid, N. W., 12D34
 Wakida, S., 1B98, 6H67, 8B80
 Wakil, S. J., 11D169
 Wakimoto, T., 1B131, 11H41
 Wakuya, K., 2D16
 Waksmundzki, A., 2C44, 2C45, 2D158, 2J15, 3J56, 5C45, 6J34
 Wal, J. M., 3D41, 7D51
 Waldenstrom, J., 4D131
 Waldhaeusl, W., 10D174
 Waldoek, M. J., 11H65
 Waldron, C. R., jun., 7D112
 Waldrop, R., 4D310
 Walczak, H., 5F55
 Walicka, T., 8E77
 Waliszewski, S. M., 4D143, 4G36
 Walker, D., 1J15
 Walker, J. M., 1B156
 Walker, J. Q., 8J61
 Walker, J. S., 11H7
 Walker, M. A., 7D90
 Walker, M. P., 2D119, 3D256
 Walker, S. M., 2D66, 8H61
 Walker, S. T., 2E31, 4E46
 Walker, W., II, 4D142, 6H80
 Walkin, E., 11D108
 Wall, J. H., 4F25
 Wall, S. M., 4H13
 Wall, W. J., 4A16
 Wallace, G. F., 5J100, 9A14
 Wallace, G. G., 4B67
 Wallace, J. E., 3D45
 Wallace, J. R., 12H101
 Wallace, L., 2H19
 Wallaschek, G., 10C6
 Wallbraun, O., 5D205

- Walle, T., 6D106, 7D78, 8D67
 Wallen, B., 2C19
 Waller, D. P., 10E16
 Wallgram, W., 7B11
 Wallin, S., 11B69
 Walling, J. F., 7H12
 Walls, H. C., 5D31
 Walls, J. M., 2B5, 9J108
 Walmsley, D. G., 5J126
 Walmsley, R. N., 4D33, 9D32, 12D225
 Walmsley, T. A., 2D3
 Wals, G. D., 6D39
 Walsh, A., 8J100
 Walsh, J. N., 5J138B
 Walsh, K. A., 5D185, 12D179
 Walsh, P. G., 3D237
 Walsh, R. L., 10D208
 Walter, F. L., 6B41
 Walters, C. L., 2D121
 Walters, D. B., 10D113
 Walters, D. C., 8B138
 Walters, D. G., 2D133
 Walters, F. H., 1D95, 3H52, 9J125, 12B102
 Walters, J. D., 4J72
 Walters, M. J., 12E31
 Walters, R. B., 4H36
 Walters, R. R., 1D166, 3D200, 6J26
 Walters, S. M., 7G30, 10G17, 12F39
 Walther, G., 11D111
 Walther, H., 7J105, 10B69
 Waltring, A. E., 12F25
 Walton, B. J., 4D142
 Walton, D. F., 12D61
 Walton, H. F., 6E66
 Walusimbi-Kisitu, M., 3D255
 Walzel, G., 9D240
 Wamanacharya, P., 11D250
 Wammes, J. I., 11H67
 Wampfler, B., 11J87
 Wan, S., 12D13
 Wan, Z., 9H58
 Wandless, G. A., 10B84
 Wang, B., 6B143, 9E6
 Wang, C.-H. J., 4D83, 10D10
 Wang, C. M., 9B31
 Wang, C. N., 11F41
 Wang, C.-Y., 4C6, 7B104
 Wang, D., 5D159, 8B74, 9B98, 9E53, 12B115
 Wang, D.-P., 2E33, 12E55
 Wang, E., 5B187
 Wang, E.-K., 3J100
 Wang, F., 12D169
 Wang, F.-S., 4J58, 4J59, 5C24
 Wang, G., 5B99, 7C25, 9B78
 Wang, H., 2B67, 3A15, 6C66, 6J176, 10B42
 Wang, H.-C., 3J100
 Wang, J., 2J5, 2J121, 3B75, 3B101, 3D130, 3E17, 3J7, 5B170, 5E37, 5F10, 5J10, 7A17, 9H46, 10J40, 10J148, 11J9, 11J141, 12B54, 12B147, 12J172
 Wang, K., 2B53, 5C8, 12E62
 Wang, L., 5B145, 5B151, 6B97, 6C27, 7B83, 9C19
 Wang, L. K., 8H94
 Wang, M., 5H63, 9E29, 11E9, 12D169
 Wang, N. S., 6D129
 Wang, P., 10D31
 Wang, P.-L., 1E11
 Wang, Q., 7C9, 8J66, 9H56, 10B63, 12C74
 Wang, R., 8B14, 9B29, 9E51, 10C70
 Wang, R. W., 11D187
 Wang, S., 3J4, 6B72, 6B72, 8B58
 Wang, S. T., 4D175
 Wang, S.-Z., 4D251
 Wang, T., 11H58
 Wang, T. H., 3F22
 Wang, W., 2B36, 2D134, 2H62, 6H72, 6J155, 7D228, 8B59, 10B2, 10F32, 12B155
 Wang, W.-T., 6D147
 Wang, X., 3A15, 6B140, 7J66, 10H27
 Wang, X. Q., 11J3
 Wang, Y., 6B163, 7D239, 7H36, 8B112, 9E29, 12C74
 Wang, Y.-B., 9B125
 Wang, Z., 3B109, 4B89, 5B195, 5H48, 7B85, 8B73, 10B166, 12H69
 Wang, Z. M., 5H12
 Wan Ngah, W. S., 6B134
 Wannman, T., 3J59, 4J70, 6J57, 9J58, 12J64
 Waraska, J., 4D68
 Ward, A. T., 10D242
 Ward, P. F. V., 11J6
 Ward, R. W., 5J89
 Ward, S. A., 8D83
 Wardencki, W., 3C46
 Warfield, R. W., 4E7
 Waring, A. J., 5A33
 Warman, K., 2H17
 Warner, C. R., 2F36
 Warner, I. M., 12J102
 Warner, J. S., 7C59
 Warner, P. O., 2H26
 Warnick, G. R., 8D210
 Warren, A. B., 2D6
 Warren, C., 10D122, 10D211
 Warren, F. V., jun., 5J114, 12J38
 Warren, I., 2D145
 Warren, J. L., 6J167
 Warren, K., 3D135
 Warrington, S. B., 8J133, 9J142
 Warshawsky, A., 7B134, 7C17
 Warthen, J. D., jun., 10D151
 Wasey, A., 2B78, 9B162, 9B169, 9B173, 11B126, 12B164
 Washabaugh, M. W., 5C18
 Washington, R. A., 10H18
 Washuettl, J., 6F27
 Waskowski, B., 2C4
 Wasowicz, E., 5C21
 Wasowicz, W., 8D30
 Wass, D., 8D205
 Wassgren, A.-B., 11J62
 Waszak, S., 4B101
 Watabe, K., 6J64, 12J118
 Watanabe, E., 1F13, 4B190
 Watanabe, F., 4D199, 12D143
 Watanabe, H., 10D78
 Watanabe, K., 1B12, 6D293, 7B56, 11B138
 Watanabe, M., 5C7, 6D200, 9D51, 12E63
 Watanabe, N., 2C6, 2C16
 Watanabe, R., 12D189
 Watanabe, T., 4J158, 10D216
 Watanabe, Y., 4D214, 6D200, 11E54
 Waterbury, G. R., 12B79
 Waterman, D. R., 2J130
 Waters, D. N., 9H4
 Waters, H. M., 10D212
 Waters, J., 9H80
 Waters, M. G., 8D255
 Waters, S. L., 3B8
 Wathen, C. G., 1D227, 6D311
 Wathne, B. M., 4H41
 Watkins, E. J., 12D121
 Watkins, I., 1C27
 Watson, A. E., 6J18, 8B10
 Watson, A. T., 8D48
 Watson, B. S., 5D76
 Watson, C., 7F3
 Watson, D., 6F10
 Watson, E. D., 5D147
 Watson, F., 1D145
 Watson, I. D., 5D95
 Watson, J. R., 5E35, 8C73
 Watson, J. S., 8B66
 Watson, J. T., 7J70, 10B176
 Watson, R., 2G23
 Watson, S., 7D103
 Watt, D. E., 9D15, 10D18
 Watterson, D. M., 1D161
 Watterson, J. I. W., 6J163
 Watts, R. J., 3H76
 Watzlawick, H., 10D233
 Waud, J. M., 6D223
 Waugh, S. W., 9D72
 Wawschinek, O., 4D31, 4D37, 9D24
 Wax, R. A., 10J95
 Waysek, E. H., 6G17
 Wear, J. A., 3D268
 Weaver, B., 1D39
 Weaver, H., 11J20
 Weavers, R. T., 9C37
 Webb, K. S., 3D138
 Webb, P. A., 4J30
 Webb, P. C., 8B66
 Webber, A., 5D90, 9D235, 9D236
 Weber, A., 7D87
 Weber, B., 1D55
 Weber, D., 1B18
 Weber, E., 10D181
 Weber, G., 6F70
 Weber, H., 12D83
 Weber, H. W., 2H9
 Weber, J. A., 9D156
 Weber, J. D., 9E18
 Weber, K., 4J103, 6J123
 Weber, R., 5F6, 7C46, 7F18, 8F21, 10F44, 12J67
 Weber, S. G., 4D8, 4J24
 Weber, W., 8B8
 Webster, J., 9E40
 Webster, L. T., jun., 2D105
 Wechsung, R., 5J135, 8J107
 Weckbecker, G., 4D284
 Wedelstaedt, C., 7G28
 Wedepohl, K., 5G10
 Wedlund, P. J., 12D76
 Wedzicha, B. L., 11F48B
 Wee, V. T., 11H79
 Weedn, V., 12D201
 Weeke, F., 8C1
 Weekly, L., 6D127
 Weeks, I., 1D158, 2D205, 2D206
 Weerasekera, D. A., 4D182
 Weerasinghe, N. C. A., 6F26
 Weese, H., 12D25
 Wegener, G., 11C64
 Wegener, J. W. M., 10C67
 Wegman, R. C. C., 11H67
 Wegscheider, W., 3J23, 11J74
 Wehling, R. L., 6G4
 Wehmeyer, K. R., 5D9
 Wehr, C. T., 11A2B
 Wehry, E. L., 3J64, 5C77, 11J100, 12C40
 Wei, C.-Y., 9B90
 Wei, F., 1B45, 1B132, 2D18, 3H74, 4H80, 5B15, 8H98
 Wei, X., 6B43, 7B90
 Weichardt, H., 6D139
 Weidner, L. L., 9D100
 Weidner, V. R., 1J62
 Weigand, R., 8E34
 Weigert, P., 4D51
 Weightman, D. R., 9D193
 Weil, M. L., 4D255
 Weiler, E. W., 6F55, 11F26
 Weiler, K., 11H32
 Weiler, K. H., 12H27
 Weimann, B., 10A21
 Weimer, W. C., 5C75
 Weinberg, D. S., 2C79
 Weinberger, R., 6J143, 12J31, 12J36
 Weiner, D. L., 7D81
 Weinert, C. H.-S., 4B180
 Weinert, I. A. G., 11F13
 Weingart, J., 7D195
 Weinkam, R. J., 8D111
 Weinkove, C., 8D149
 Weinstein, M. J., 7E46B
 Weinstein, S., 7D169, 9D176
 Weinstein, S. H., 10D103
 Weipert, D., 4G6
 Weis, H., 11H2
 Weis, L., 8H85
 Weisberger, M., 6D113
 Weisburger, J. H., 1F7
 Weiser, M., 12B29
 Weiser, W. E., 4J102
 Weisman, Y., 10D145
 Weiss, J., 9J35
 Weiss, S. M., 6D234
 Weissbach, F., 7G19
 Weisser, H., 5F1, 5F5
 Weisser, O., 1C23
 Weisshaar, D. E., 5J38
 Weissuh, I., 1D60
 Weisweiler, P., 9D219
 Weisz, H., 9J105, 12B1
 Weisz, J., 7G7
 Weitkamp, C., 12H12
 Weitkamp, H., 1E3
 Weitzmann, C. J., 3D188
 Welch, C. J., 12C33
 Welch, C. L., 7D11
 Welch, M. J., 12D150
 Weliky, K., 6H60
 Welinder, B. S., 2D185, 8D178
 Welke, R. A., 7F39
 Wellburn, A. R., 4D272
 Wellby, M. L., 3D154
 Weller, F. E., 8D182
 Wellhoener, H. H., 5D58
 Welling, G. W., 7D247, 9D201
 Wells, C. E., 2D79
 Wells, D. E., 6H2, 8H3
 Wells, G., 2B59, 5J61, 6J106, 7J68, 10J76
 Wells, K. E., 8D36
 Wells, M. J. M., 11G13
 Wells, T. N. C., 3D199
 Welsch, E. P., 5B204
 Welsch, T., 3J22, 5J25
 Welscher, T. M., 8D74, 10D102
 Welte, B., 5H39, 5H44, 8H1
 Welti, D., 12J154
 Welti, N. A., 7J118
 Weltzy, J., 10F49, 12F3
 Welz, B., 1B18, 4D56, 5B248, 5J91, 9D33, 12B111, 12B112, 12B123
 Wen, L., 4D244
 Wen, X., 12B35
 Wenclawski, B., 10B163, 10J34
 Wendt, W., 11J86
 Wendland, S., 6E22
 Wendlandt, E., 4H66
 Wendt, W., 11B69
 Weng, C. Y., 10H21
 Weng, L. Y., 11B167
 Weng, Y., 2B37
 Wenger, B., 2G18
 Wenk, M., 4D74, 4D133
 Wennrich, R., 11J88
 Wenske, U., 2D156
 Went, J., 1D91
 Wentzke, M., 5D129
 Wenzel, K. D., 5G18
 Werkhoven-Goewie, C. E., 2J11, 4D128
 Werner, G., 4B20
 Werner, H., 7D34, 7F51, 7F60
 Werner, H. W., 9J66
 Werner, W., 5A9
 Wernisch, J., 5J124, 7J93
 Werries, E., 3D92
 Wesenberg, J., 4F62, 9F46
 Wesley, J. F., 4D118
 Wesolowski, J. J., 4H13, 7H17
 Wessel, D., 11D195
 Wesselman, R. J., 7H71
 Wessels, J. C. M., 6J72
 West, D., 8D253
 West, M. A., 3J84
 West, N. G., 9H11
 West, P., 1D18, 5J171, 7D240
 West, P. W., 1H12
 West, R. H., 5J122
 West, S. D., 8H92
 West, T. S., 3B12
 Westcott, J. Y., 4D163

- Westendorp, J. F. M., 7B74
 Westerbeek, D., 10F41, 10F45
 Westerberg, R. B., 9H76
 Westerholm, R., 4H44
 Westerhuis, L. W., 3D20
 Westerink, B. H. C., 5D165
 Westerlund, D., 10J37
 Westerlund, S., 5H43
 Westfall, D. P., 11D219
 Westland, A. D., 4B85, 5B270
 Weston, G. D., 3G13
 Weston, P. D., 3D183
 Westra, P., 2D89
 Westwater, E. R., 9H6
 Westwood, S. A., 9J19
 Wetlaufer, D. B., 12D236
 Wetterberg, L., 10D262
 Wetzel, D. L., 5G4, 5J116, 6G4
 Wetzel, E., 4J80
 Wetzstein, H., 10E39
 Weuffen, W., 6D133
 Wevers, R. A., 7D255
 Weyandt, M., 5E54
 Weyer, K., 2J94, 11J115
 Weyhenmeyer, R., 12D92
 Weyland, J. W., 5A32, 7E38
 Whalley, P. D., 6H55
 Whang, C. W., 12J171
 Wharton, C. W., 10D256
 Wheeler, B. D., 8B130
 Wheeler, M. J., 5D143
 Wheeler, W. B., 10G19, 12G8
 Whelan, M. J., 7J95
 Whenham, R. J., 5G26
 Whicher, J., 7D196
 Whicher, J. T., 4D243, 10D211
 Whitaker, D., 2H19
 Whitaker, T. B., 4G7, 4G8, 10F8
 Whitby, F. J., 6H94
 Whitby, K. T., 1H4
 White, A., 5B278
 White, C. A., 1D89, 4C13
 White, C. M., 6C31, 10J75
 White, D. C., 7H64
 White, D. M., 9C78
 White, E., V., 12D150
 White, E. L., 1D146
 White, G. F., 5J99
 White, G. W., 1D54
 White, J. C., 3H65
 White, J. C., 9D18
 White, J. W., jun., 8F17
 White, K., 2D50
 White, K. D., 7F49
 White, M. A., 4C87, 7C89
 White, P. A., 5H96
 White, P. C., 2E9, 7E19
 White, P. J., 5F53
 White, R. L., 3J88
 White, S. M., 2D95
 White, T. F., 10D159
 Whitehead, E. M., 12D202
 Whitehead, P. G., 10H40
 Whitehead, T. P., 3D6, 5D183, 9D12, 12J10
 Whitehouse, M. W., 2D113
 Whitehouse, R. C., 6D34
 Whiteside, P. J., 8D24
 Whitfield, C. R., 4D172
 Whitfield, M. F., 6D60
 Whiting, J. S., 8A23
 Whitley, C. B., 11D130
 Whitlock, S. A., 9H88
 Whitman, J., 5J92
 Whitman, W. B., 11D224
 Whittaker, M., 4D326, 4J83B
 Whittaker, R. G., 4F28
 Whittingham, J., 5B278
 Whittle, M. J., 4D172
 Whittle, P. J., 1H40
 Whyte, J. N. C., 6D46
 Wicher, K., 5D128
 Wichman, M. D., 10F30
 Wick, A., 11H10
 Wickroski, A. F., 10F39
 Wicks, J. F. C., 6D78
 Wickus, G. G., 8D232
 Widdop, B., 5D61
 Wideqvist, U., 12D109
 Widjaja, N., 5E54
 Wiebe, D. A., 10D140
 Wieck, H. J., 11J133
 Wiecken, M., 4A26
 Wiedemann, E., 9D133
 Wiedemann, G., 9D227
 Wiedmeyer, H.-M., 1D187, 1D188
 Wiegand, C. E., 8J2
 Wiegleb, G., 8B92
 Wiejcka, M., 5C100
 Wieland, H., 2D210, 5D141
 Wieland, O. H., 1D182, 7D245
 Wielckens, K., 7D221
 Wielders, J. P. M., 6D288
 Wielopolski, L., 6D41
 Wielunski, L. S., 12J131
 Wierzchowski, J., 3D263
 Wiese, B. M., 2D69
 Wiese, K., 1B74
 Wieser, H., 2G3, 9G6
 Wieser, P., 11B38
 Wiesler, D., 11C26, 11D8
 Wiggins, K., 3J45
 Wightman, F., 3D147
 Wightman, R. M., 5J36, 7J121, 12J168
 Wiik, A., 3D229
 Wijsbeek, J., 2D61, 3D12
 Wilcke, H., 1J74
 Wilcke, J. C., 4D114
 Wilcox, R. E., 10D153
 Wild, J. R., 4D49, 4D315
 Wild, U. P., 5J108
 Wilder, B. J., 5J133
 Wilderspin, A. F., 4C8
 Wildgrube, H. J., 7D152
 Wildman, N. J., 8H83
 Wildpret Dixkes, L. M., 12F36
 Wilensky, A. J., 10D84
 Wiles, D. M., 11C68
 Wiles, D. R., 5B108, 11B33, 11H39
 Wilfinger, W. W., 1D191
 Wilhardt, P., 8H24
 Wilhartz, P., 7J102, 11B90, 11B101
 Wilhelm, E., 7F33, 8F19
 Wilk, Z. A., 4J151
 Wilke, T. J., 3D154, 9D189
 Wilke, W., 10D120
 Wilkerson, K., 8D220
 Wilkins, C. L., 3J88, 5J19, 8J63
 Wilkins, J. P. G., 10G25
 Wilkins, R. J., 9D232
 Wilkins, T. A., 4D230, 12A19
 Wilkinson, A. T. S., 9G25
 Wilkinson, G. R., 12D76
 Wilkinson, L. F., 7D6
 Wilkinson, R. J., 12H91
 Wilks, D., 8E29
 Wilks, P., jun., 8E29
 Will, P. C., 12D239
 Wilcox, D. L., 8D128
 Willems, D., 6D32
 Willems, Y., 9F48
 Willemsen, M. F. C., 12J130
 Willetts, P., 11D172
 Williams, A., 6H17
 Williams, B. C., 3D67
 Williams, B. D., 6G17
 Williams, C. N., 8D143
 Williams, D., 4D263, 4H18
 Williams, D. B., 8J108
 Williams, D. H., 1D46
 Williams, D. T., 3H17, 8H93, 12H34, 12H35
 Williams, F. L., 11C48
 Williams, G. R., 10F47
 Williams, J., 6D77
 Williams, J. C., 7F39
 Williams, K. L., 5H58
 Williams, M. A., 9F51
 Williams, M. G., 3F33
 Williams, P., 9D6
 Williams, P. F. V., 4B191
 Williams, P. S., 6J63, 12C9
 Williams, R., 1D200
 Williams, R. D., 5D104
 Williams, R. G., 2D189
 Williams, R. L., 1C41
 Williams, S., 5D55
 Williams, W. S., 12B8
 Williamson, D., 1D119
 Williamson, R. J., 4H15
 Willich, P., 7B125
 Willig, K.-H., 5D239
 Willis, C. R., 12D80, 12D87
 Willis, J. A., 8B97
 Willis, J. E., 10D169
 Willis, R. B., 2H39
 Willmes, H., 8H56
 Wills, M. R., 1D22, 1D102, 4D121, 7D128, 8D150, 12D204
 Willson, N. J., 11D49
 Willson, W. G., 9C63
 Wilmott, N. J., 10D70
 Wilsch, A., 4C22
 Wilsnack, R., 2D204
 Wilson, A. C., 6D287
 Wilson, B. L., 10H59
 Wilson, C., 5D210, 8D256
 Wilson, C. W., III, 5F36, 11F38
 Wilson, D. M., 10F9
 Wilson, D. W., 6D253
 Wilson, E., 4D325
 Wilson, E. A., 8D129
 Wilson, G. S., 7J39, 11D4
 Wilson, I. B., 5D247
 Wilson, I. D., 3E33, 11J45
 Wilson, J. F., 6D77
 Wilson, L. G., 4H47
 Wilson, M. A., 12C49
 Wilson, S., 8H42
 Wilson, S. A., 9J38
 Wilson, S. R., 9C90
 Wilson, T. R. S., 2H42
 Wilson, T. W., 11D132
 Wimalasiri, P., 7F67
 Wimberley, P. D., 10D19
 Winberg, M. J., 12A13
 Windeck, R., 9D206
 Windham, W. R., 5F60
 Winefordner, J. D., 1J70, 2C33, 5E31, 6D36, 8J69, 10J101, 10J103, 11J96, 12D216
 Winek, C. L., 4D136, 6D134
 Winfield, S. A., 6J141
 Wingender, W., 8D85
 Winger, P. V., 12D108
 Wingstrand, K. H., 8D67
 Winkel, D. R., 9E61
 Winkelman, J. W., 10D21, 10D23
 Winkler, G., 2J107
 Winnefeld, K., 5D38
 Winograd, B., 2D58
 Winsauer, K., 2C12, 2E18, 9G18, 9G22
 Winspear, M. J., 5G5
 Winsten, S., 2D4
 Winterburn, P. J., 3D95
 Wintersteiger, R., 3D34, 5A11, 10C10
 Wippermann, B., 5D211
 Wirthensohn, G., 9D251
 Wirz, P., 4J109
 Wise, J. A., 5B39
 Wise, S. A., 6D17, 7C43, 7H23, 10H36, 12J25
 Wiseman, B. S., 5D153
 Wisser, H., 8D152
 Wistuba, D., 7C47
 Witherspoon, L. R., 12D172
 Witkiewicz, Z., 8J48
 Witkonton, S., 6G33
 Witowska, B. A., 10F53
 Witowska, J., 5E27
 Witt, C. G., 12D239
 Witt, C. R., 11J121
 Witt, I., 1D172
 Witte, W., 4J138
 Wittig, H., 11G20
 Witting, L. A., 10F72
 Wittkowski, M., 7F18
 Wittmann, Z., 5C38
 Witz, S., 11J8
 Wodarz, R., 6D139, 12D166
 Woell, J., 4D154
 Woeller, F. H., 12J72
 Woestenborghs, R., 7D85
 Wohl, H., 6D127
 Wohlgemuth, R., 2G29
 Wohltjen, H., 3H12, 9J123
 Woitiez, J. R. W., 2D39
 Wojciechowska-Mazurek, M., 2F2, 8F49
 Wojcieszczyk, R., 5C10, 5C11
 Wojcik, A., 2J27, 3J56
 Wojcik, K., 9B12
 Wojcik, M., 5B26
 Wojtowicz, M., 2J68
 Wojtyasiak, K., 2C58
 Wokroj, A., 5F55
 Wold, J. K., 3E4
 Wolf, A., 11D22, 11J52
 Wolf, B., 8D245, 8D246
 Wolf, G., 9J46
 Wolf, H., 12H18
 Wolf, W. A., 2D168
 Wolf, W. R., 1D31
 Wolfbeis, O. S., 5A11, 5J110, 7E12, 9B111, 9F57, 12B129
 Wolfe, R. S., 11D224
 Wolfe, A., 4E1
 Wolff, C.-M., 5D116
 Wolff, E., 9J64
 Wolff, G., 10C78
 Wolff, J., 1B18, 9D227
 Wolff, M., 7E18, 9J30
 Wolfram, L. E., 6C40
 Wolfrum, S. M., 8A14
 Wolfsohn-Pombo, A. F., 6F54
 Wolfson, L., 6D61
 Wolk, M., 1D185
 Wollenberger, U., 7J133
 Woller, R., 9F10
 Wollmann, H., 3E41
 Wolnik, K. A., 11F25
 Wolos, A., 4D234
 Wolski, T., 5D178, 8D162
 Wolthers, B. G., 1D110, 2D171, 3D133, 4D35, 7D118
 Wong, A. S., 7H71
 Wong, C. M., 12B174
 Wong, J., 2B87
 Wong, J. L., 3C53, 7C65
 Wong, J. S., 8E29
 Wong, L. K., 9D76
 Wong, M.-C., 6B62
 Wong, M. H., 3H5
 Wong, P., 10D157
 Wong, P. T. S., 10H52
 Wong, R. J., 10D80
 Wong, S. H. Y., 9D72
 Wong, W., 6D66
 Wong, W. W., 4D42
 Woo, A. H., 7F66
 Woo, D. J., 6C12, 6D158
 Woo, S.-O., 3D32
 Wood, A. M., 4J9
 Wood, B. J., 3D138
 Wood, D. C. F., 8D15
 Wood, G. C., 2J89
 Wood, G. E., 10G4
 Wood, G. M., jun., 6J158
 Wood, J. D., 1J86
 Wood, K. V., 7J108
 Wood, P., 11D191, 11D192
 Wood, P. J., 7G7
 Wood, R., 4F63, 11D127
 Wood, S. P., 10D180
 Wood, W. G., 6D8, 7D8
 Woodbury, J. E., 8F50
 Woodford, F. P., 5D143
 Woodhead, J. S., 1D158, 2D205, 2D206, 6D2
 Woodruff, H. B., 9A22, 9A23
 Woods, J. W., 5D76
 Woodward, E. M. S., 9H53
 Woodworth, J. R., 10D88
 Woollard, D. C., 10F37, 10F46

- Woollard, P. M., 11D126
 Woollen, J. W., 12D180
 Woolley, A. J., 4H12
 Woolley, C. L., 11J47
 Woolsey, K., 10D2
 Woolum, D. S., 8B6
 Wopenka, B., 12H9
 Worley, J. W., 12A9
 Wormald, M. R., 1B159, 1B160
 Wormeester, A. J. G., 2E35
 Worobey, B. L., 4J56, 6G29
 Worsfold, P. J., 10D20, 10D203
 Worth, H. G. J., 11D14
 Worthy, E., 10D241
 Wortig, D., 1E3
 Wozniak, T. J., 4C64
 Wrembel, H. Z., 3H38
 Wrenn, M. E., 4D41, 7D29, 10D36
 Wrighlesworth, R., 3D183
 Wright, B. W., 12C34
 Wright, C. W., 9C66
 Wright, D. J., 5D213, 7D209
 Wright, D. S., 5D9
 Wright, J. C., 1J76, 5J112
 Wright, J. E., 7D141
 Wright, K. D., 1J120
 Wright, R. C., 9H64
 Wright, R. J., 8G6
 Wu, B. G., 8C7
 Wu, C., 4E14, 7D228
 Wu, C.-L., 4B96
 Wu, D., 3J4, 9B152
 Wu, G., 6D30, 6J175, 7H56, 8D87
 Wu, H. C., 8B47
 Wu, H.-L., 1E32, 6B24, 8H97
 Wu, J., 5J173, 6B181, 12B155
 Wu, J.-C., 2B91
 Wu, J. T., 6D19
 Wu, J. W., 2D50
 Wu, L., 9E49
 Wu, M., 10B2
 Wu, M.-L. W., 4J133
 Wu, Q., 3H45, 6B45, 8C61, 10B1
 Wu, R., 9B47
 Wu, S., 2J77, 6B82
 Wu, S.-C., 1J103, 2B40, 8B34
 Wu, T., 6B159
 Wu, W., 6J183, 12E62
 Wu, X., 2G27, 3B28, 5D159, 9B24
 Wu, Y. P., 9B18
 Wu, Z., 6G10, 12B107
 Wu Chen, N. B., 3D56, 8D32, 8D78
 Wuensch, E., 5D192
 Wuensch, G., 3J75, 11B116
 Wuensch, C., 11D227
 Wullschlegel, R., 7F36
 Wunschel, K. R., jun., 4D32
 Wurst, F., 2E8
 Wurst, M., 10D57, 10G16
 Wurster, R., 11B38
 Wuthier, U., 1D14, 2D13, 12J154
 Wyatt, D. M., 5F12
 Wyatt, J. R., 6J159
 Wyatt, R. J., 6D156
 Wybrow, B. R. A., 2J46, 7J55
 Wyganowski, C., 11B128
 Wynne, H. J., 3D155
 Wyttenbach, A., 5B137
 Xenakis, A., 5C86
 Xia, D., 10B105
 Xia, G., 8E82
 Xia, M., 9E17
 Xia, S., 3B75
 Xiang, L., 3A7
 Xiao, D., 9B79
 Xiao, J., 8B129
 Xiao, S.-H., 2D105
 Xiao, Y., 2B21, 7H36
 Xie, F., 11D151
 Xie, G., 6C11
 Xie, K.-H., 3J11, 7J22
 Xie, N., 6B101, 10B46
 Xie, T.-M., 5H80, 6H85
 Xie, Y., 6H68, 10B75
 Xie, Z., 3J108, 7B53, 9C50, 9D108
 Xin, R., 9B78
 King, S., 7D145
 Xu, B.-X., 8H59
 Xu, C.-J., 11D147
 Xu, F., 5C67
 Xu, G., 2D8, 9E43
 Xu, H., 7B98, 7C25
 Xu, J., 3B51, 4J125, 5B157, 6J175, 8E23
 Xu, K., 9B64
 Xu, L., 2B17, 8A4, 8E24, 9E10, 9J100, 10A21, 12D39
 Xu, M., 6B101, 10B46
 Xu, Q., 6B74
 Xu, S., 2A3, 9E29, 12B116
 Xu, T.-M., 8H59
 Xu, X., 3B14, 8B33
 Xu, Y., 7B68, 8B36
 Xue, C., 12C7
 Xue, F., 9J40
 Xue, G., 3B59
 Xue, X., 6D30, 6J175, 9B19
 Xue, Y., 11D241
 Yabe, Y., 7F28, 7F35
 Yacoub, E.-S. A. K., 7C3
 Yacynych, A. M., 11J133
 Yada, S., 2D215
 Yae, Y., 4D194
 Yagel, S., 12D199
 Yager, G. D., 10H57
 Yagi, M., 5D29, 6J164, 7H41, 9H49, 9H57, 11B100, 11B125, 11H47
 Yaginuma, H., 12D102
 Yakanina, E. V., 11C72
 Yakimenko, L. N., 10B72
 Yakimova, N. M., 6B13
 Yakovlev, B. V., 10J3
 Yakovlev, O. I., 9B91
 Yakovlev, Yu. V., 1B103, 6B182, 12B185
 Yakubova, M. Sh., 11E39
 Yakupova, T. V., 7C6
 Yakushev, E. M., 9C1
 Yakushin, M. A., 6D70
 Yakushina, L. M., 2J17, 2J18
 Yalcindag, O. N., 1E1, 8E57
 Yamabe, T., 1J38
 Yamada, E., 7H73
 Yamada, F., 1F12, 4F49, 9C36, 11D100
 Yamada, H., 2B34, 2D195, 9E63
 Yamada, J., 3D40, 8E35
 Yamada, K., 4B88, 4D208, 6D152, 6D169, 6D307, 10H62, 12B146, 12C4, 12C28
 Yamada, M., 3D104, 7B129
 Yamada, N., 9F53
 Yamada, S., 5C53, 8J31, 9J31, 12E11, 12E18, 12E49
 Yamada, T., 7F14, 8F7, 9E45, 10D98, 11B37
 Yamada, Y., 9J47
 Yamaga, N., 5D157
 Yamagata, N., 5F16
 Yamaguchi, A., 5C34, 6C13
 Yamaguchi, F., 2D129
 Yamaguchi, I., 1G10
 Yamaguchi, K., 9J34
 Yamaguchi, M., 4D213, 6D315, 6D316, 9D95
 Yamaguchi, S., 8H72, 8J4, 9C70, 10B153, 12C72
 Yamaguchi, T., 7D86, 10J6, 12D223
 Yamaguchi, Y., 8D141, 12D152
 Yamaji, Y., 12C28
 Yamaki, N., 10H25
 Yamaki, T., 8D135
 Yamamoto, C., 12D228
 Yamamoto, D., 2B11
 Yamamoto, H., 5C69, 12B24
 Yamamoto, I., 3F3
 Yamamoto, J., 9H78, 10D33
 Yamamoto, K., 6B135, 7D12, 8D91, 9D68, 10B125, 12J117
 Yamamoto, M., 5D169, 8F7, 9B106, 9D47, 9F17, 11E54, 12B24, 12B122
 Yamamoto, N., 4H24, 6D152
 Yamamoto, S., 3D108, 5J143, 11D176, 11J19
 Yamamoto, T., 3D61, 10H25, 12J117, 12J118, 12J119
 Yamamoto, W., 6D200
 Yamamoto, Y., 1B142, 3B15, 3B69, 3D108, 3F15, 3F26, 4D274, 4H69, 5B153, 6D186, 9B106, 12B24, 12B122
 Yamamura, H. I., 2D190
 Yamamura, K., 3D40, 8E35
 Yamamura, M., 8D177
 Yamanaka, E., 7E4
 Yamanaka, H., 11F2
 Yamanaka, M., 4C70
 Yamanaka, Y., 1E28
 Yamane, T., 10H49, 12B150
 Yamasaki, A., 9B20, 11A8
 Yamasaki, H., 5H31, 6H33
 Yamashiroya, H., 7D192
 Yamashita, J., 6D294
 Yamashita, K., 3D108, 8D184, 12D124
 Yamashita, M., 3F26
 Yamashita, S., 4E21, 12B132
 Yamauchi, C., 6D195
 Yamauchi, J., 5D70
 Yamauchi, S., 9D51
 Yamauti, J., 6D294
 Yamawaki, Y., 5B32
 Yamazaki, H., 4D329, 8F3
 Yamazaki, M., 1D112, 3E10, 5E17, 6B27, 7H32, 9D182, 12B100, 12D102
 Yamazaki, Y., 6H33
 Yamazoe, N., 6J6
 Yamoto, M., 11D208
 Yan, B., 6C11, 8B26
 Yan, C., 12B57
 Yan, D., 8B49
 Yan, H., 3J100, 6B103
 Yan, K., 5E51
 Yan, Q., 7H38
 Yan, R., 4B104
 Yan, S.-C. B., 11D194
 Yan, Y., 2G26, 12B40
 Yan, Z., 6J175, 8B49
 Yanachkov, I., 10E34
 Yanaeva, V. Ya., 10C7
 Yanagawa, M., 9D124
 Yanagihara, S., 2D176
 Yanagisawa, F., 9B119
 Yanagisawa, M., 3J77
 Yanagisawa, S., 2H12, 5C69
 Yanagisawa, T., 12D189
 Yanagisawa, Y., 2H15
 Yanashima, H., 12C4
 Yancey, J. A., 6C40
 Yanchenko, N. I., 12B95
 Yancheva, M., 2B90
 Yanchuk, N. I., 7C42
 Yandovskii, V. N., 12C41
 Yandrasitz, J. R., 7D134
 Yaneva, S., 11H49
 Yang, A., 3F5
 Yang, C.-Y., 11D169
 Yang, F., 5A4, 7B65
 Yang, F. J., 1J20, 2J48, 6J78
 Yang, F.-S., 2J125
 Yang, G., 8A3
 Yang, H., 2D8, 10B46
 Yang, J. S., 11J134
 Yang, J. T., 2D18
 Yang, M. H., 11B167, 11H51
 Yang, Q., 12E7
 Yang, R., 7D172
 Yang, R.-K., 7D161, 8D64
 Yang, R. S. H., 7G20
 Yang, S., 2D81, 3H50
 Yang, S.-K., 8D68
 Yang, V., 4H68
 Yang, W., 7B94, 9E16
 Yang, Y., 5E23, 6B51, 6B71
 Yang, Z., 7D257, 11F10
 Yanishlieva, N., 12F42
 Yankovskaya, L. M., 4A6
 Yano, S., 5E20
 Yanovskaya, I. M., 4B14, 7B49
 Yanovskii, S. M., 6A14, 7C56, 8J52
 Yanter, A. I., 1B6
 Yao, S., 6J176, 6J183, 10H84, 12E43
 Yao, T., 5D115, 5D136, 5D244
 Yao, X., 10B63
 Yao, Z., 6J175
 Yarita, T., 8C79
 Yarmo, M. A., 7B84
 Yarmolik, A. S., 7B101, 10B121
 Yarmukhamedova, N. N., 5B133, 7B107
 Yarnitzky, C., 7D208, 12J170
 Yaropolov, A. I., 2J113
 Yartsev, M. G., 9B154, 11B5
 Yasaki, T., 6D72
 Yashiki, M., 5D70
 Yashima, K., 3C57
 Yashin, Ya. I., 2E36, 4C35, 6J86
 Yashiro, T., 3H10, 3H22, 3H23, 10D224, 10H30
 Yasuda, H., 10D68
 Yasuda, K., 7D155
 Yasuda, S., 8H99
 Yasuda, T., 10E28, 12D82
 Yasuda, Y., 3C57, 3C58, 5D122
 Yasuhara, A., 8A22, 8D10, 12H31
 Yasumura, S., 10D41
 Yasunaga, C., 6D277
 Yasuoka, T., 6H32
 Yata, M., 5B147
 Yates, D. A., 11B158
 Yates, J. R., III, 6D227
 Yates, K., 5J122
 Yates, S. G., 1E9
 Yathirajan, H. S., 7D174
 Yatscoff, R. W., 2D199, 4D77, 4D277, 10D183, 12D63
 Yatsukovich, Yu. B., 8H27
 Yatzidis, H., 1D129
 Yau, W. W., 6J192
 Yavors'ka, L. P., 3E52
 Ye, J., 11C32
 Ye, J., 9B30
 Ye, Y., 5J79, 8J34
 Yeager, D. W., 1D25
 Yeager, E. P., 12D67
 Yeager, R. L., 3D66, 6D71, 9D97
 Yeatts, L. B., jun., 2C50
 Yeaw, D. C., 5B43
 Yeh, H. C., 1J4, 11J5
 Yeh, S. C., 8D89
 Yeh, W.-K., 12E66
 Yeh, Y.-C., 2B44, 4B25, 4B96, 5B168, 8B43
 Yen, H. C., 2D157
 Yen, M.-C., 2D40
 Yenkie, M. K. N., 5B174
 Yeole, C. G., 2B35
 Yeomans, N. D., 7D92
 Yergey, A. L., 4D70
 Yergey, J. A., 3J87, 3J92, 4J143, 5J128
 Yersin, A., 3D15, 3D17, 4D58
 Yeung, E. S., 7J33, 9J33, 9J38
 Yin, B., 2B36
 Yin, F., 1B45, 2D18, 4H80
 Yin, J., 10H87
 Yin, X., 10B42
 Ying, Q., 5H14
 Ying, T., 5H14, 6J185
 Ying Foo, A., 9D270
 Yingst, D. R., 4D34
 Yinon, J., 3C72
 Yoda, R., 1B142, 8C85
 Yokel, R. A., 6D25
 Yokohama, H., 9D142
 Yokohama, S., 8D184
 Yokosawa, H., 5D248
 Yokota, F., 7B30
 Yokota, K., 3D108

- Yokota, T., 8G9
Yokotsuka, K., 3C145
Yokoyama, S., 12C72
Yokoyama, T., 5B203
Yokoyama, Y., 2H55, 3H56, 9B112
Yoneda, S., 10D155
Yonekawa, W., 2D67
Yonemori, S., 1C39, 8C79
Yonezawa, C., 6B107
Yonger, J., 1A7, 3D102, 4D47, 4D323
Yoo, J. C., 8E41
Yorde, D. E., 7D201
Yoshida, H., 1D141, 3D185, 3H40, 4B125, 5C33, 5D42, 8C5, 9B101, 9C40
Yoshida, I., 11B92
Yoshida, K., 2D220, 3F15, 6D210, 8B54
Yoshida, M., 5J143, 7F52, 10D33, 11D57, 12C4
Yoshida, S., 6D281, 7D237, 8D242, 9D255, 11D217
Yoshida, T., 3D61, 11C47
Yoshida, Y., 10D213
Yoshihara, K., 11B100, 11B124, 11B125, 11J30
Yoshihara, T., 4C74
Yoshii, K., 12J117, 12J118, 12J119
Yoshii, S., 12E5
Yoshii, Y., 7C88
Yoshikawa, K., 4F6, 6D157
Yoshikoshi, H., 5D243
Yoshiikuni, N., 8B101
Yoshimori, T., 2J123, 5B130, 8H18, 9B189
Yoshimura, C., 4B60, 9B34, 9C55
Yoshimura, K., 9D121
Yoshimura, O., 4H69
Yoshimura, S., 3D61
Yoshimura, T., 7D21
Yoshimura, Y., 4C56
Yoshinaga, T., 1D167
Yoshino, K., 12D32
Yoshino, T., 9B58
Yoshioka, M., 4D324
Yoshioka, Y., 11D143
Yoshitake, S., 7D4, 8D194, 11D208
Yoshiura, M., 5D227, 6D200, 6D284, 6J181, 7D227, 12D64, 12D153, 12D215
Yoshizaki, S., 10H75
Yoshizawa, I., 6D293
Yoshizumi, K., 10H4, 11H35
Yost, R. A., 5J133
Yotsuyanagi, T., 3D40, 4B190, 6B46, 6B173, 8E35
Youl, S., 8A24
Young, A. L., 9A5B
Young, B. K., 2D11
Young, C. C., 11F14
Young, D. A., 5D220
Young, D. C., 9C64
Young, D. S., 1J40, 4D297, 5D8, 7D11, 10J51
Young, E., 10G8
Young, I. M., 8D176
Young, J. C., 4H85
Young, J. D., 8D72
Young, J. G., 6D163
Young, J. P., 12B72
Young, P. J., 2H18
Young, R., 11B28
Young, R. N., 7D127
Young, S., 10F74
Young, S. N., 5D89
Yousuf, M., 4J7
Yovich, J. L., 8D128
Yoza, N., 5D246
Yu, D., 6B87
Yu, D. K., 7D98
Yu, G., 12H47
Yu, J., 2D134, 7B124, 8C61
Yu, J. C., 5H45
Yu, M., 3H49, 9C92
Yu, M. W., 9E59
Yu, R., 3A7, 5C8, 6B142, 9H44, 11C20, 12D169, 12E7
Yu, R. K., 5D130
Yu, S., 2B37, 2B39, 5B99, 7B61, 10H84, 12B117
Yu, T.-H., 3D81
Yu, T. J., 8D175
Yu, W., 10B122
Yu, W. C., 6D112
Yu, X., 4B76, 6B77, 7D26, 11B47, 11B95, 12B64, 12B65
Yu, Y., 7D172, 12H102
Yu, Z., 5B73, 5B187, 6B82
Yuan, F., 7A17
Yuan, Q., 9J136
Yuan, Y., 7F8
Yudelevich, I. G., 1B27, 1B166, 4A6, 4B31, 4B105, 4B106, 5B3, 5B55, 5B135, 5B144, 5B286, 6B115, 9B48, 9B50, 9B186, 9J83, 10B177, 11B107
Yudina, L. V., 5B226
Yue, F., 3B75
Yue, L., 8B73
Yue, S., 9B71
Yuen, K. C. L., 3D179
Yuge, H., 4F53
Yukhin, Yu. M., 4B54
Yuksel, K. U., 3D277
Yuldasheva, K. T., 4B187
Yurawecz, M. P., 7F44, 8F65, 12G7
Yurchenko, V. V., 8B18
Yurist, I. M., 7B6
Yurkin, V. G., 6B90
Yusupov, M. Yu., 11H52
Yuzefovich, N. M., 12B95
Yuzhakova, S. I., 9B183
Zabel, T. F., 8H75
Zabielski, M. F., 9H18
Zabik, M., 6H99
Zablotskaya, I. D., 7D28
Zabokritskii, M. P., 4J54
Zacchei, A. G., 9D100
Zaccheo, F., 12E37
Zachara, B., 8D30
Zachmann, M., 5D156
Zacsik, I., 10G22
Zadernowski, R., 8G2
Zadorozhnaya, V. N., 11B163
Zadrozinska, J., 2F35, 8F43
Zagarese, V., 4E9, 5E14, 10E35
Zagatto, E. A. G., 2H45, 7G1
Zagorevskaya, E. V., 9J57
Zagorodnii, V. V., 1B70
Zaharans, V., 2C15, 4C11, 8C11, 10C19
Zahn, H., 4D256, 6C52, 10C75, 12C67
Zahner, H., 12D192
Zahradnick, M., 10E38, 11E42
Zaidi, S. A., 9D106
Zaidi, T. H., 9F26
Zaien, Kh. S., 11B46
Zaika, T. D., 10C13
Zaikin, V. G., 6C8
Zainullin, R. F., 9C53
Zaitsev, N. I., 1B158
Zaitsev, P. M., 7B6
Zaitsu, K., 7D238, 8D236
Zaitsu, T., 12H71
Zajicek, J., 5F25
Zak, B., 2D147, 12D112, 12D133
Zakar, F., 2F32
Zakarcia, N., 11B147
Zakharchenko, L. N., 3B94
Zakhariya, N. F., 4J120
Zakharov, L. S., 7C6
Zakharov, M. S., 2J120
Zakharova, E. A., 7J136
Zakharova, N. V., 5C12
Zaki, M. T. M., 10C38
Zakirov, B. G., 4B109
Zakomolkina, N. I., 4B68
Zakorina, N. A., 10B93, 12B13
Zakraysek, N., 6H31
Zakrzewska, G., 5B285
Zakupra, V. A., 4C30
Zala, E., 8A15
Zalewska, H., 10B82
Zalkind, L. M., 4B140
Zamarayev, V. P., 1B127, 6B162
Zambianchi, M., 9H83, 10B73
Zamboni, R., 7D127, 12D79
Zamboni, P. G., 10B94, 11D106
Zamora, J., 5B258
Zampaglione, N., 11D76
Zander, M., 12C43
Zanelli, J. M., 2D183
Zangieva, Z. G., 10B117
Zanlungo, A. B., 3D96
Zanolio, G., 6D82
Zanoni, M., 10D192, 10J56
Zanozina, V. F., 5B86
Zapalac, G. H., 10H15
Zapardiel, A., 5B182, 10B106
Zapolski, E. J., 10D197
Zappacosta, B., 8A13
Zarinskii, V. A., 4J164, 7C7
Zaromb, S., 1H10, 1J8
Za'tar, N. A., 5B102, 6B86
Zatolokin, B. V., 3B7
Zatti, M., 3D50
Zavadovskaya, A. S., 2D143
Zawta, B., 3D261
Zebrev, A. I., 3H72, 5H89
Zech, F., 7D242
Zech, K., 7D82
Zecher, D., 5J85
Zee, J. A., 9F22
Zehender, H., 7D254
Zeisler, R., 6D17
Zeitler, H.-J., 3D137
Zejnilovic, P. M., 8B94
Zelenetskaya, A. A., 12C59
Zelenina, M. F., 8H88
Zelentsova, L. V., 6B115, 9J83
Zelichowicz, N., 10H95
Zel'tser, L. E., 3B47
Zeman, A., 5C74
Zeman, I., 10C61
Zemberyova, M., 4B15
Zemlyanushnova, O. V., 12B43
Zempen-Papp, E., 1B85
Zeng, G., 3A7, 6B142
Zeng, M., 5E51
Zeng, S., 11B47
Zeng, Y., 2D8, 4B81, 6B77, 6B80, 7D26, 9B67, 9B184, 9J135, 11B47, 12B64, 12B65
Zenkevich, I. G., 12C41
Zenki, M., 7H41, 11H47
Zenon-Roland, L., 11G39
Zepter, R., 5D129
Zerezghi, M., 5J104, 12B15, 12J99
Zerwekh, J. E., 6D164, 10D27
Zettner, A., 1J77, 7D109
Zevely, J. S., 8B30
Zgainski, E.-M., 1E45B
Zgoda, M., 5C30
Zhai, Z., 8C61
Zhan, C., 2B76
Zhan, Z., 12B127
Zhang, B., 5B195, 12B144
Zhang, C., 2B20, 3B33, 7D26, 9B44, 9H13
Zhang, D., 6B167
Zhang, F., 6J175
Zhang, G., 4E14, 7B8, 8B112, 9H56, 10B42, 10B60, 11E13
Zhang, H., 9B79
Zhang, J., 1J12, 6B87, 6D30
Zhang, K., 6D30
Zhang, L., 2B60, 3F5, 5B95, 6B54, 7D172, 8H96, 9H52, 10B63
Zhang, M., 9B75, 9C56
Zhang, N., 11D241
Zhang, R., 5B181, 7B115, 7D153
Zhang, S., 2B38, 3A1, 3B28, 5A4, 5B36, 5H91, 6B87, 9B64, 9B179, 9E38
Zhang, T., 5B93, 7B115, 10H87
Zhang, W., 12D13
Zhang, X., 5B212, 6B103, 8E24
Zhang, Y., 3D94, 5J173, 6G6, 9B121, 9B157, 9H58, 11B162, 12E21
Zhang, Y. X., 9B31
Zhang, Z., 3A7, 5B73, 5B201, 6B51, 7B100, 7D48, 8H13
Zhao, D., 5B158
Zhao, G., 4B104
Zhao, J., 9C32
Zhao, M., 7B53
Zhao, N., 10B119
Zhao, R., 9J62
Zhao, S. L., 3D184
Zhao, X., 1B28, 2B22, 3C12, 12B147
Zhao, Z., 5J46, 6B163, 12B45, 12B87
Zharov, V. P., 3J65, 7C12
Zhdanov, S. I., 6H77
Zhdanov, G. N., 10B104
Zhebentyaev, A. I., 8E90, 10E37, 11C81, 11E45
Zhelezova, I. N., 3B78
Zhelezov, V. V., 5B52
Zhelezova, A. A., 5B133, 7B107
Zhelgova, G. K., 4C40
Zhelitukhin, I. A., 10C68, 10C69
Zhemchuzhin, S. G., 2J72
Zheng, C., 4B89, 5D159, 5D160, 7G12, 10B75
Zheng, D., 10B119
Zheng, G., 9B134
Zheng, H., 8E13
Zheng, J., 2G28
Zheng, L., 7F8
Zheng, S., 9B146
Zheng, Y., 3B52, 3B53, 7B85
Zheng, Z., 9C33, 12H69
Zheng, K. A., 5B71
Zhikhareva, E. A., 10B67
Zhil'tsov, N. I., 8C53, 11C34
Zhil'yeva, A. L., 7B149
Zhmaka, V. I., 11H53
Zholdybaeva, R. B., 3H72, 5H89
Zhong, M., 12B127
Zhong, Y., 7B89
Zhou, B., 9B47
Zhou, D., 8G1
Zhou, F., 5J78, 9H56
Zhou, J., 5B191, 7E5, 10B63
Zhou, K., 3B5
Zhou, L., 7B78, 7B121
Zhou, M., 8J34
Zhou, N., 5B63, 5B181
Zhou, N. G., 5B232, 9J89
Zhou, R., 7C48, 8J34, 9B152
Zhou, S., 3B52, 3B53, 9B65
Zhou, T., 4J169, 5H63, 6H68, 11J137
Zhou, X., 5C8, 9C50, 10B63
Zhou, Y., 5B36, 6B117, 8B129, 9C45, 12C7
Zhou, Z., 8H49, 11E13
Zhu, K., 9C56
Zhu, S., 9E51
Zhu, X., 2D8, 4H52, 9B30, 9B184
Zhu, X. X., 4D140
Zhu, Y., 3G6, 4G13, 5B53, 6G6, 9J135, 11C20, 12J159
Zhu, Y.-R., 4H80
Zhu, Z., 9B121
Zhuk, L. V., 9B100
Zhukhovitskii, A. A., 6A14, 7C56, 8J52
Zhukova, T. V., 8C20
Zhukovskaya, L. N., 9C85
Zhuravlev, G. I., 4B103
Zhuravlev, Yu. A., 11J78
Zhvakina, M. V., 5B244
Zibarev, P. V., 4C92
Zieba, C. A., 10B152
Zief, M., 10J32

- Ziegenhorn, J., 1D108, 4D177, 12D205
 Ziegler, G., 5F14
 Ziegler, E., 1A1
 Ziegler, H., 3A14
 Ziegler, J. F., 12A16
 Ziegler, J. M., 9E41
 Ziegler, M., 3D167
 Zienius, R. H., 1G17
 Ziese, U., 10C81
 Zigel, A. N., 9C84
 Ziglio, G., 11D110
 Zihlmann, J., 11J87
 Zijlstra, W. G., 2D214, 10D225
 Zikolova, T., 11E8
 Zil'bershtein, Kh. I., 11J95
 Zilkova, I., 10G20
 Zilm, D. M., 5D105
 Zimak, J., 8E62
 Zimin, M. G., 7B14
 Zimina, I. F., 5B22
 Zimlichman, R., 12D154
 Zimmer, G., 7J127
 Zimmer, K., 5J97
 Zimmer, L., 6D136
 Zimmerman, C. J., 4D41, 10D36
 Zimmerman, L. A., 8D82
 Zimmermann, E. G., 12D67
 Zimmermann, M., 3E41
 Zimmermann, V., 2C49
 Zimmermann, W., 9D275
 Zinbo, M., 3C6, 10C56
 Zinchenko, Z. A., 7B103
 Zini, Q., 1B69
 Zink, E. W., 7F62, 7F63
 Zinov'ev, A. I., 1J116, 3J114
 Zio, C., 7D203
 Zipf, W. B., 4D190
 Ziring, B., 6D229
 Zirrolli, J. A., 4D163
 Ziskoven, R., 3D14
 Zitnak, A., 7G9
 Zitting, A., 3H19
 Zivanov Stakic, D., 4D15
 Zizzamia, J. A., 3D69
 Zjawiony, I., 2E6
 Zlatkis, A., 3F22, 4J58, 4J59, 5C24, 8J57
 Zmievskaia, O. R., 6B105
 Zmijewska, W., 8H46
 Zobkov, S. N., 10B112
 Zoccolillo, L., 12C78
 Zoeltzer, D., 5G10, 12H58
 Zogorski, J. S., 10H70
 Zoldak, B. R., 11H80
 Zoller, L., 11G21
 Zoller, U., 3H80
 Zolotarev, Yu. A., 4J25
 Zolotareva, A. P., 1H26
 Zolotov, Yu. A., 1A4, 1B73, 3B40, 4B18, 4B79, 4J164, 5B194, 6F65, 7A2, 9B23, 9B158, 11B6, 12A2, 12B171
 Zolotova, G. A., 6E48
 Zolotovitskaya, E. S., 9B191
 Zommer-Urbanska, S., 8D54, 10B155
 Zonneveld, H., 7F76
 Zonta, F., 2F30, 12D217
 Zoppi, M., 7J89
 Zoro, J. A., 4B200
 Zorov, N. B., 1B17, 3B26
 Zorya, B. P., 8E71
 Zorz, M., 2D54
 Zorzoli, I., 6D232
 Zorzopulos, J., 7D233
 Zoski, C. G., 5J186
 Zotschev, S., 12B32
 Zou, G., 2D163, 4J34
 Zou, N., 6J100
 Zou, Z.-Y., 4A7
 Zoutendam, P. H., 9E11, 9E12, 12E27
 Zowall, H., 5E49
 Zsadanyi, J., 11D177
 Zsadon, B., 5E12
 Zsigrai, I. J., 5B208
 Zuba, G., 5J124, 7J93
 Zubenko, A. V., 11E21
 Zubenko, I. B., 11H52
 Zubenko, V. G., 11E21
 Zubkov, B. V., 11J116
 Zucchelli, G. C., 2D180
 Zucchini, G. L., 10D9
 Zuchowski, Z., 10J70
 Zuckerman, D. M., 9D223
 Zuckerman, M. M., 11H19
 Zuelke, M. S., 10D10
 Zuend, R., 12J154
 Zuercher, F., 10H66
 Zuev, V. V., 3B65
 Zueva, M. V., 11D26
 Zueva, V. L., 8H54
 Zuha, S., 11B115
 Zui, O. V., 6H76
 Zukowski, J., 10C40
 Zul'figarov, O. S., 11H74, 12B114
 Zuniga, P., 6D292
 Zuo, B., 2B17, 10B31
 Zuo, Z., 9C56
 Zupan, J., 2A19
 Zuppi, C., 6J21, 8A13
 Zuzok, A., 5G6
 Zvegintseva, G. B., 4C20
 Zvegintzoff, D., 5B259
 Zvyagintsev, A. M., 2G15
 Zwanenburg, B., 9D75
 Zwart, A., 2D214, 10D225
 Zweidinger, R., 2H19
 Zweig, G., 1G14
 Zwier, T. A., 8D118
 Zwierz, K., 10D123
 Zwierz, P., 11G19
 Zwillenberg, H. H. L., 3D49
 Zwillenberg, L. O., 3D49
 Zwingelberg, H., 3F13
 Zygmunt, B., 3C46, 7H74
 Zygmunt, E., 12D238
 Zymenkiivs'kii, B. S., 3E45
 Zyryanov, E. A., 1B59



